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ABSTRACT

The guide is intended for teachers of profoundly retarded and severely multiply handicapped children in California. It suggests relevant methodologies and media for such children as well as sample curricula for use in Development Centers for Handicapped Minors and state and private institutions. The major portion of the document consists of instructional plans which provide examples of activities and programs in specific curriculum areas and which are intended as guides to curriculum planning. Major areas covered are ambulation, stimulation, communication, self help skills, imitation, and behavior problems (self destructive behavior, aggression, and blindism). Each instructional plan states objectives, prerequisites, instructional methods, and learning activities, and is followed by a critical commentary identifying strong points and difficulties perceived in the plan. A final section discusses theoretical considerations involved in a philosophy of curriculum planning for Development Centers. (KW)



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A GUIDE FOR THE INSTRUCTION AND TRAINING OF THE PROFOUNDLY RETARDED AND SEVERELY MULTI-HANDICAPPED CHILD

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IN COOPERATION WITH

THE STATE DEPARTMENT OF EDUCATION DIVISION OF SPECIAL EDUCATION

BUREAU OF EDUCATIONAL IMPROVEMENT FOR THE HANDICAPPED

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FORI

The Santa Cruz County Board of Educational and California who teach profoundly retarded at The Santa Cruz Development Center program for exceptional children. The establishment concern of this community for meeting the of this strong commitment that the county tion for ESEA Title VI funds to conduct the institutes.

FOREWORD

anta Cruz County Board of Education and I take pride in having an provide an educational and training program for teachers throughout teach profoundly retarded and severely multi-handicapped children. Development Center program is an important addition to our services al children. The establishment of this program reflects the deep is community for meeting the needs of the handicapped. It was because g commitment that the county Board of Education approved our applicatible VI funds to conduct three training and curriculum development

RICHARD R. FICKEL, Superintendent Santa Cruz County Office of Education Santa Cruz, California

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The preparation and publication commitment of hundreds of people. As a 1,600 profoundly retarded and severely management of the profound of the preparation and people. As a 1,600 profoundly retarded and severely management of the profound of the propagation of the profound of the propagation of t

While the Development Centers for interim placement for children who were awaiting placement in one of the State F of the public school system in the State witnessed the growth and development of This success has led to several major deprofoundly retarded and the severely multiple of the severel

Last year (1970), the D.C.H.M. In of Education's Bureau of Mentally Except Exceptional Children, in recognition of function as they do because of a physical After a study of the needs of the severe our State Hospitals, Assemblyman Frank the establishment of four pilot programs disordered" child. What is most significate of Development Centers as being been population of children.

The State Advisory Board for D. Cooperation of the State Department of Education in conducting a cooperative rebehavioral characteristics which identificate development in a D.C.H.M. program. This all children in State Hospitals for the children enrolled in D.C.H.M. programs.

PREFACE

preparation and publication of this Guide represents the dedication and of hundreds of people. As a professional group, those who serve the some undly retarded and severely multi-handicapped children in our Development well as in state hospitals and private institutions, are very unique. very hard day and endure a long year. By their own admission, they serve ild--for they serve the most severely mentally, behaviorally, and physically

le the Development Centers for Handicapped Minors were initiated as an cement for children who were not eligible for existing programs or were acement in one of the State Hospitals, they have become a viable component ic school system in the State. In ten short years, (since 1961), we have he growth and development of children enrolled in the D.C.H.M. programs. In the led to several major developments in the area of service to the retarded and the severely multi-handicapped.

t year (1970), the D.C.H.M. program was shifted from the State Department n's Bureau of Mentally Exceptional Children to the Bureau of Physically Children, in recognition of the fact that some D.C.H.M. children may they do because of a physical impairment rather than a mental deficiency. dy of the needs of the severely emotionally disturbed children in one of ospitals, Assemblyman Frank Lanterman introduced legislation calling for shment of four pilot programs to serve what he referred to as the "mentally child. What is most significant is that he identified in his bill the elopment Centers as being best suited to serve this potentially large of children.

State Advisory Board for D.C.H.M. programs requested, and received the of the State Department of Mental Hygiene and the State Department of n conducting a cooperative research project aimed at identifying those characteristics which identify a potential for each child's growth and in a D.C.H.M. program. This study, when completed in 1971, will include n in State Hospitals for the profoundly retarded, as well as over 350 rolled in D.C.H.M. programs.

ERIC.

In September 1970, the Santa Cruz County Of Title VI-B Federal grant to develop a system of orginal children. This will be a three-year project ioral characteristics of all handicapped children, delivery a system for accountability and organization study by the prime contractor for this project, the the profoundly retarded and the severely multi-hand which relates to this population will be published

Looking ahead, one can expect to see an importance of those behavioral characteristics which best described by enrollment in D.C.H.M. programs. We can diagnostic instruments and techniques. Instruction will be more clearly defined and individualized. In for the most effective distribution of funds, for strative accountability. Finally, we can look forward funding priorities based upon a prescribed assess turing of the Education Code and California Administ the appropriate goals and objectives for the D.C.H.

RICHARD Programs and Adult

¹ V.O.R.T. stands for <u>Values</u>, <u>Objectives</u>, <u>Resource</u>

eptember 1970, the Santa Cruz County Office of Education was awarded a ederal grant to develop a system of organization and service for excepten. This will be a three-year project aimed at identifying the behaveristics of all handicapped children, and then developing for service ystem for accountability and organization. The population now under prime contractor for this project, the V.O.R.T. Corporation includes by retarded and the severely multi-handicapped. The project document to this population will be published in October of this year (1971).

ing ahead, one can expect to see an improvement in the identification avioral characteristics which best describe children who need and can rollment in D.C.H.M. programs. We can also expect to discover improved astruments and techniques. Instructional methodologies or strategies clearly defined and individualized. There will be established systems effective distribution of funds, for staff performance and adminisuntability. Finally, we can look forward to a comprehensive reordering riorities based upon a prescribed assessment of needs and the restructed Education Code and California Administrative Code, Title 5, to effect ate goals and objectives for the D.C.H.M. child.

RICHARD D. STRUCK, Director Programs for Exceptional Children and Adults and Fupil Personnel Services

stands for Values, Objectives, Resources, Time

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¹ E.S.E.A. Title VI-B, Project Number

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SECTION I.

INTRODUCTION



A CURRICULUM FRAMEWORK FOR D.C.H.M.

The third Santa Cruz Curriculum Development Institute for Handicapped Minors (D.C.H.M.) Programs was held in provide an opportunity for the participants of the 1968 and the 1969 Curriculum Development Institute to revise the profoundly retarded and severely multi-handicapped to the California State Department of Education, Bureau the Handicapped. This document is the product of that relevant methodologies and media for the profoundly retarded as sample curricula for use in development centers and private institutions.

Responsibilities of the Participants

Most of the institute participants were enrolled five days contributed to the production of a conference tionnaire data, participants were assigned to one of foof curriculum development. I (Each group contained approleast one of these people had experience in applying a the Peabody Language Development Kit to a Development of explained the program to the group and demonstrated it bers of the group had experience or even prior knowledge they had at least registered interest in that area of or

Within each week four task forces covered at leadditional programs. Preference was given to standardi Language Development Kit and to programs, though unstantaining need not covered by an available standardized given to unstandardized programs of special interest.



A fifth task force area dealing with operant conditions "tailored" behavioral programs operated over the full

² A few individuals were invited to make video taped of techniques not covered in Task Forces.

A CURRICULUM FRAMEWORK FOR D.C.H.M. PROGRAMS

Santa Cruz Curriculum Development Institute for Development Centers inors (D.C.H.M.) Programs was held in July, 1970. Its purpose was to unity for the participants of the 1968 Behavior Modification Institute iculum Development Institute to revise the 1969 Course of Study for tarded and severely multi-handicapped and to present a final document State Department of Education, Bureau of Educational Improvement for This document is the product of that 1970 conference. It includes ogies and media for the profoundly retarded and multi-handicapped as rricula for use in development centers as well as in state hospitals tutions.

of the Participants

he institute participants were enrolled for one week and within these uted to the production of a conference report. On the basis of questricipants were assigned to one of four task forces oriented to areas elopment. (Each group contained approximately 15 participants.) At e people had experience in applying a specific program, for example, age Development Kit to a Development Center (D.C.) class. This teacher gram to the group and demonstrated it for video taping. Not all membrand experience or even prior knowledge of the specific program. But registered interest in that area of curriculum development.

ach week four task forces covered at least one and, as time permitted, ams. Preference was given to standardized programs such as the Peabody nent Kit and to programs, though unstandardized, which met a critical covered by an available standardized program. Consideration was also ardized programs of special interest.

force area dealing with operant conditioning and the development of navioral programs operated over the full two weeks.

uals were invited to make video taped demonstrations of special tovered in Task Forces.



The conference drew unique informat available in no other "curriculum guide," can with their personal experiences in applying tical experience and wisdom were sought. If from those having practical and meaningful at the instructional level, even though the nique in terms of its theoretical frame of Considerations - "A Philosophy of Curriculum

Contributions at the classroom leve

- A brief description of the pr requirements and purchase pri
- 2. Training and educational back e.g., could a volunteer house apply it with little or no he forward written instructions?
- 3. Answers to the questions:
 - a. Has the program proven of populations?
 - b. How has it proven of value (Descriptions of character level and physical handice)
 - c. By what standards has the form of objective index improvement measured with are preferred, subjective useful.)
- 4. Any adaptations of a standar extended its applicability to a level for the intellectual be provided with preparatory adaptations may have been dee.g., materials with increas sighted.



conference drew unique information from participants—information no other "curriculum guide," catalog, or text. This information dealt personal experiences in applying curricula to D.C.H.M. populations. Practione and wisdom were sought. In so doing, useful information was gained having practical and meaningful experience. They were able to contribute ructional level, even though they could not meaningfully discuss a technoms of its theoretical frame of reference (see Section IV - Theoretical but on a Philosophy of Curriculum Planning").

tributions at the classroom level included the following:

A brief description of the program, including materials, time requirements and purchase price.

Training and educational background requisite to using the program, e.g., could a volunteer housewife with only a grade school education apply it with little or no help other than that provided by straight forward written instructions?

Answers to the questions:

- a. Has the program proven of educational value with what D.C.H.M. populations?
- b. How has it proven of value and with what specific groups? (Descriptions of characteristics of students including IQ level and physical handicaps)
- c. By what standards has this value been appraised? (While some form of objective index such as standardized tests or behavioral improvement measured within an operant conditioning framework are preferred, subjective or quasi-objective evidence can be useful.)
- Any adaptations of a standard program, e.g., the Peabody, that have extended its applicability to D.C.s. A program that starts at too high a level for the intellectual level of a D. C.'s general population, may be provided with preparatory steps that make it eventually useful. Or adaptations may have been developed for specific handicapping conditions, e.g., materials with increased vividness and contrast for the partially sighted.



- 5. Descriptions of how the property for example, the Peabody revisions on the basis of with the ITPA as an "inde
- 6. Of necessity, an individual two training programs in curriculum area, the task standardized and unstandardized and unstandar
 - a. It is applicable to who have never spoker
 - b. Training beyond that
 - c. Training films are a
 - d. It is an operant contypically utilized f
 - e. Training is on a one
 - Revision of the program, in "A Philosophy of Curr

pants, especially the volunteer demons on their final presentation. The lead part of the discussions for later refe continuous access to Dr. Thomas Ball, consultation and advice.

The curriculum units in Section reports of these task forces.



- 5. Descriptions of how the program was developed and evaluated. For example, the Peabody Language Development Kit underwent revisions on the basis of field tests. Its validity was tested with the ITPA as an "independent" criterion of improvement.
- 6. Of necessity, an individual task force could cover only one or two training programs in depth. To fill in the gaps for its curriculum area, the task force provided references to other standardized and unstandardized programs not covered during the group's discussions. Sufficient details were provided on these programs to permit a person completely unfamiliar with them to make a judgment regarding their potential usefulness for his own D.C. group. For example, the following points could be made regarding Lovaas' speech program:
 - a. It is applicable to young, school-age autistic children who have never spoken;
 - b. Training beyond that provided in a manual is required;
 - c. Training films are available;
 - d. It is an operant conditioning type program which typically utilized food reinforcement;
 - e. Training is on a one to one basis, etc.
- 7. Revision of the program, in terms of the eight questions outlined in "A Philosophy of Curriculum Planning." (See Section IV.)

Following the conference each Task Force leader and the task force particispecially the volunteer demonstrating the technique, prepared a report based
final presentation. The leaders were given the opportunity to tape record
the discussions for later reference in developing these reports and had
as access to Dr. Thomas Ball, Mrs. Eve Pecchenino and Mr. Robert Mathew for
tion and advice.

The curriculum units in Section II are the product of the efforts and of these task forces.

. . .

Thomas S. Ball

SECTION II.

INSTRUCTIONAL PLANS

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Since the goal of the institute of for profoundly retarded and severely multiment Centers as well as in state hospital should provide an entry point for anyone and developing educational activities. The ence, providing examples of activities as "ambulation" may be defined as one relevant ulum guide should provide information rectasks within programs according to the primpairment and an appraisal of the program all the major content areas, the teacher needs of his pupils. And he is probably frequently developed on this basis.

developed by conference participants, all These plans have been edited only minima errors of interpretation relative to the Yet, in view of the fact that the partic week, and in this brief period were requiprogram, provide a demonstration of the report, the results are remarkably good

Leaving the participants contribunique opportunity to look at what evolv develop their own material. By reviewin into the thought processes and judgments This kind of "clinical" document is much consistent by subsequent editing. For v programs overlapped or nearly duplicated

In the comments that follow each of the strong points and also some of the criticism occurs, it is performed in the for the creative work to be found in each

Although many teachers confine tand provide a useful service, they shoul



Since the goal of the institute was to produce a guide to curriculum planning bundly retarded and severely multi-handicapped children enrolled in Developters as well as in state hospitals and private institutions, this section rovide an entry point for anyone faced with the responsibility of planning loping educational activities. This guide should serve as a practical refer-viding examples of activities and programs within specific areas. For example, ion may be defined as one relevant area that must be "covered." This curricte should provide information regarding the appropriateness of programs and thin programs according to the pupil's degree of intellectual and physical hand an appraisal of the program's effectiveness. Once he has "covered" major content areas, the teacher may feel prepared to meet the educational his pupils. And he is probably correct. Reasonably good programs are ly developed on this basis.

In this section will be reproduced several of the instructional plans d by conference participants, all of whom worked in small task forces. ans have been edited only minimally. For this reason, they contain some interpretation relative to the application of the classification system. View of the fact that the participants attended the conference for only a d in this brief period were required to attend lectures, develop a teaching provide a demonstration of the program for video taping, and then produce a the results are remarkably good and a real credit to everyone involved.

Leaving the participants contributions in their original form provides a pportunity to look at what evolves when teachers take some guidelines and their own material. By reviewing these documents, some important insights thought processes and judgments of the teachers themselves can be gained. d of "clinical" document is much to be preferred to a version made perfectly nt by subsequent editing. For various reasons, especially the fact that some overlapped or nearly duplicated others, not all of them are reproduced.

In the comments that follow each plan, an attempt is made to highlight some trong points and also some of the difficulties perceived in each. Where moccurs, it is performed in the service of understanding and with due respect creative work to be found in each contribution, whether published or unpublished.

Although many teachers confine themselves to a step by step method of teaching ide a useful service, they should be prepared to think beyond it. Therefore,



a second purpose of this institute was to provide scending the classroom point of entry. An expansion the profoundly retarded and severely multiple Development Centers is thus discussed in Section

this institute was to provide a series of perspectives tranoom point of entry. An expanded philosophy of curriculum planning
retarded and severely multi-handicapped students in California's
is thus discussed in Section IV.

Thomas S. Ball

UNIT 1

AMBULATION

ERIC Full Text Provided by ERIC

AMBULAT:

PRE

1.

2.

3.

4.

OBJECTIVE: Stimulate ambulation through the use of reflexive responses.

INSTRUCTIONAL METHODS

- To establish a base line of development. (See Evaluative Tools listed)
- 2. Place child face down on Bobath ball. Hold firmly by legs just above the knee (not ankles).
- Roll child forward until head is about seven inches from floor or child reaches out and touches floor.
- 4. Place child on floor mat in prone position (on tummy). Trainer on floor keeping near child level to establish near eye contact for interpersonal action. Trainer uses toy to attract child's attention and talks to the child.

Stimulate ambulation through the use of reflexive responses.

PREREQUISITE(S): Medical clearance for physical activity.

INSTRUCTIONAL METHODS

tablish a base line of opment. Evaluative Tools listed)

child face down on Bobath Hold firmly by legs just the knee (not ankles).

child forward until head is seven inches from floor or reaches out and touches floor.

child on floor mat in prone
ion (on tummy). Trainer on
keeping near child level to
lish near eye contact for
personal action. Trainer uses
o attract child's attention
alks to the child.

LEARNING ACTIVITIES

- 1. Not applicable.
- 2. Child is lying comfortably.
- 3. Sudden arm and head extension. Protective reflex elicited.
- 4. Child will lift head up to watch toy and to watch trainee's face while he talks.
 Also, child will reach for toy, thus the child is raising head and shoulders off mat and strengthening neck and trunk muscles.
 Also the child reaches and grasps objects.

l.



Giving the Denver Development Test. Thirt month old, unable to sit up or hold head u

3.



Smiles and talking reinforce the movement to reach for toy, and hold up head.



()14

2.



Development Test. Thirty to sit up or hold head up.



ERIC

ing reinforce the movement and hold up head.



Using Bobath ball to elicit protective reflexes--"getting purposeful movement."





"Come on sweetheart, reach for the bells."

NOTE: What follows are responses to the first sof this guide.

NARRATIVE

- 1. A program of ambulation through stimulation tive reflex in an otherwise passive child. a child usually responds actively to a multiwho is sensitive to the child's needs and resphere. As shown here, the program includes following:
 - a. Forward protective reflex
 - b. Lateral protective reflex
 - c. Head extension
 - d. Range of motion
 - e. Self-initiated movement

These abilities are basic to a child's furth affective development. (See page 114 and fo

Materials essential to this unit are listed Time requirements: One-half hour limit per

- 2. This program could be used by anyone, a para vision of either a physical therapist or an
- 3. The children that could benefit the most fro most profoundly affected in the area of moto developmental lag and/or severe motor involv Thus, they do not experience the sensory-mot

By what evaluative instruments has this been

- a. Cattell Infant Intelligence Scale
- b. Denver Developmental Screening Test
- c. Gross Developmental and Child CAre, D
- d. Preschool Attainment REcord, Edgar A.
- e. Seal Bluff Evaluation Scale

This strategy motivates the staff member to growth in an objective and exciting way.



s are responses to the first six questions listed on pages 2 and 3 $\,$ йe.

mbulation through stimulation and active arousal elicits a protecan otherwise passive child. Motorically, at about a 4 months level, y responds actively to a multisensory approach if used by a teacher ve to the child's needs and responses in an exciting, spirited atmoown here, the program includes activities which will elicit the

protective reflex protective reflex tension f motion itiated movement s are basic to a child's further psychomotor, cognitive, and (See page 114 and following.) lopment.

ntial to this unit are listed in the appendix. nts: One-half hour limit per session, three times daily.

ould be used by anyone, a paraprofessional or parent, with the superer a physical therapist or an occupational therapist.

that could benefit the most from this program are those who are the y affected in the area of motor development and who, because of lag and/or severe motor involvement, are without motor control. not experience the sensory-motor process of learning.

ative instruments has this been appraised:

l Infant Intelligence Scale Developmental Screening Test

Developmental and Child CAre, Dr. Margaret Jones

ool Attainment REcord, Edgar A. Doll

luff Evaluation Scale motivates the staff member to measure even very small increments of objective and exciting way.



- 4. Adaptations of programs such as Kephart developed to meet the individual needs of the program to be used, measurements are level. The adaptations used include taken smooth, etc.; balance activities on a bassive manipulation.
- 5. This strategy is excellent for "passive in the arousal and stimulation to "turn They thus emerge from the present devel sensory motor level in the eliciting of sensation or fright trauma interception Arousal and positive stimulation develo personal-social relationships for the y humanizing toward total integration. T muscle fone in the "flabby child" and t
- 6. Programs are continually being develope occupational therapists working with ce and evaluating. The programs were then in his state of severe developmental la gists include the DENVER DST, Seal Bluf ligence Scale, Edgar A. Doll's Preschood Developmental and Child Care Evaluation



is of programs such as Kephart, Bobath, Rood, and Ayres have been to meet the individual needs of children. In order to determine am to be used, measurements are taken of each child's developmental he adaptations used include tactile stimulations: hot-cold, roughtc.; balance activities on a big ball or bolster; brushing; and anipulation.

tegy is excellent for "passive" helpless children as it can result ousal and stimulation to "turn on" and "tune in" these youngsters. emerge from the present developmental level to the next sequential otor level in the eliciting of prehensile grasp through the startling or fright trauma interception moving away from their placid immobility. In the operation of the startling and positive stimulation develops trust in the therapist and positive social relationships for the youngsters as well as organizing and g toward total integration. This program is also excellent in developing ne in the "flabby child" and the severely withdrawn child.

are continually being developed and evaluated. Initially, physical and nal therapists working with cerebral palsied children did the developing ating. The programs were then adopted for the mentally retarded child ate of severe developmental lag. Adaptations by educators and psychololude the DENVER DST, Seal Bluff Evaluation Scale, Cattel Infant Intellude the DENVER DST, Seal Bluff Evaluation Scale, Cattel Infant Intelcale, Edgar A. Doll's Preschool Attainment Record (PAR), and the Gross and Child Care Evaluation Scale - Dr. Margaret Jones.

INSTRUCTIONAL PLAN -

INSTRUCTIONAL I

Describe how this unit will be useful in destruction.
 It leads to an increased repertoire of behavior.

trust, use of fear-avoidance behavior to el establishes reflexive activity, a precursor

2. Describe how this unit will be useful in st

Through passive movement, reflexive movemen positive reinforcement including exciting s and the use of incentives. The passive, no situation where reflexes are elicited, crea manipulation but generalized reflexively by "mobilized," and in so doing, postural tone motion.

- Does not directly relate to this unit.
- 4. Is this unit's theoretical orientation dire

Direct, because we are seeking a reflexive moment the child "loves" the activity, bour through his own movements to generate the managements.

5. Is the unit's theoretical orientation (1) h

Activation and arousal techniques in a sting internal coping with a passive child. The entire process certainly falls within the process or per Piaget.



INSTRUCTIONAL PLAN - AMBULATION INSTRUCTIONAL LEVELS

ow this unit will be useful in dealing with behavioral change.

o an increased repertoire of behaviors, such as establishment of basic of fear-avoidance behavior to elicit purposeful use of the body. It s reflexive activity, a precursor to self-initiated movement.

ow this unit will be useful in stimulating action and arousal.

ssive movement, reflexive movement, the multisensory approach, and einforcement including exciting social stimulation, tactile stimulation e of incentives. The passive, non-ambulatory child is placed in a where reflexes are elicited, creating movement that is not passive on but generalized reflexively by the child. The child becomes ," and in so doing, postural tone is developed as well as a range of

ow this unit will contribute to modeling and imitation.

irectly relate to this unit.

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it's theoretical orientation direct or indirect? Explain.

cause we are seeking a reflexive action. It becomes indirect the child "loves" the activity, bounces on the ball or the bolster, begins, sown movements to generate the movement of the ball or bolster.

t's theoretical orientation (1) behavioristic, (2) cognitive, or eic? Explain.

and arousal techniques in a stimulating environment are used to elicit coping with a passive child. The sensory-motor training brought into the ocess certainly falls within the framework of a cognitive theoretical on, as per Piaget.

6. Describe how the unit provides for

The skills learned in this unit are In addition, once the child has made self-initiated movement, he experiengenerates curiosity and initiative a

7. Describe how this unit relates to of

It relates to and is basic to any frability. Also, it is a necessary deand self-help areas and is the basis the foundation for later gross movement., and moving towards a desired of

8. Describe how this unit might be afferd or personality.

This unit would be affected greatly sensitivity to the child. The institute child in prescribed exercises, it is action by the child. The instrumotivation for movement. In additionand participate with her in the treafear—avoidance behavior initially, it reflexes develop and he learns to put then encourages the child to engage

NOTE: These evaluative questions are di



he unit provides for the transfer of training.

rned in this unit are transfered to the next developmental level. nce the child has made the trip from pure reflexive movement to movement, he experiences a desire to move, to see--in short, he osity and initiative and a way to explore the world.

his unit relates to other training areas.

and is basic to any further development of the child's motoric, it is a necessary development for progress in communication areas and is the basis for later development. This method is for later gross movement, such as creeping, crawling, sitting, and towards a desired object.

this unit might be affected by the instructor's teaching technique

Id be affected greatly by the instructor's enthusiasm and by the child. The instructor, rather than passively manipulating prescribed exercises, uses the ball and bolster to elicit reflexithe child. The instructor furnishes a more efficient method of movement. In addition, the child learns to trust the instructor te with her in the treatment. Also, although the child experiences behavior initially, he gradually loses this as his protective lop and he learns to protect himself from falls. The instructor es the child to engage in self-motivated movement.

native questions are discussed in detail in Section IV.

AMBUL.

EQUIP

36" ball - Montgomery Wards and Abercrombie

Toys for auditory and visual stimulation - Lakeshore Educational Supplies, O

Bolster - must be made with small, thin mat made of heavy plastic material wh

Hot and cold wash cloths
Rough and soft toweling
Plastic "toughy" (scouring pad)
2-3 ice cubes wrapped in cloth or directly
Furs
Brush (2 inches) - soft hair, e.g. sable br
Small blanket
8" semi-hard ball for pressure (pressing ag
Flashlight - lens can be various colors
Mobiles
Carpeting strips of different textures, sha
Therapy mats - Preston Catalog, Trenton, Ne
or
Therapy tables (optional)

Standing, nonbreakable mirrors - Creative Compressed air - tire pump, hair dryer, too

ERIC

EQUIPMENT

```
omery Wards and Abercrombie & Fitch - Price $5 to $10
y and visual stimulation - Creative Playthings, Palo Alto -
ore Educational Supplies, Oakland (rattle, bells, etc.)
\epsilon made with small, thin mattress that is rolled. The cover is
f heavy plastic material which is sewn over the rolled mattress.
h cloths
oweling
(scouring pad)
apped in cloth or directly on skir
- soft hair, e.g. sable brush
1 for pressure (pressing against child)
s can be various colors
of different textures, shapes and materials
reston Catalog, Trenton, New Jersey
(optional)
akable mirrors - Creative Playthings
tire pump, hair dryer, tooth cleaner
```



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AMBULATIC

SUGGESTED EVALUAT

Denver Developmental Screening Test

Seal Bluff Evaluation Scale

Cattell Infants' Intelligence Scale - Psyche Cattell

Preschool Attainment Record, (PAR) - Edgar A. Doll

Gross Developmental and Child Care

Evaluation Scale
(Also: Reflex Maturation Chart
State Postural Control &
Locomotion)

NOTE: Evaluative tools are to assist theraphe considered definitive devices of



SUGGESTED EVALUATION TOOLS

ntal Screening Test

LADOCA Project

Publishing Foundation, Inc.

E. 51st Avenue & Lancaster Street

Denver, Colorado 80216

Also available through any Meade & Johnson's Pharmaceutical Distributor

uation Scale

Seal Bluff Developmental Center

3020 Grant Street

Concord, California 94520

Intelligence Scale -

Psychological Corporation

304 E. 45th Street

New York, N. Y. 10017

nment Record, (PAR) -

American Guidance Service Minneapolis, Minnesota

ntal and Child Care

k Maturation Chart

Postural Control &

btion)

ale

Dr. Margaret Jones

University of California, Los Angeles

Rehabilitation Building

1000 Veteran's Building

760 Westwood Plaza

Los Angeles, California 90024

ve tools are to assist therapists only and are ordinarily not to dered definitive devices of measurement.

FILMS:

<u>Title</u>

How Babies Learn

New Y

Life With Baby

Detro

Learning in Infancy - Lipsett

Brown

The Bobath Approach to Cerebral Palsy Habilitation

Inter



Source

New York University Film Library,
New York City, N. Y. 10001
University of Wisconsin Film Library,
Madison, Wisconsin 53706

fancy - Lipsett

proach to Cerebral

itation

Detroit Public Library, 5201 Woodward Avenue, Detroit, Michigan 48202

Brown University, Department of Psychology, Providence, Rhode Island 02912

Inter Church Audio Visual, 832 Silas Deane Hiway, Wetherfield, Connecticut 06109 (This film includes the Athetoid and the Spastic Child)

COMMENTS:

__ - - - -

Baer, Lovaas and other operant condithe laborious procedures of shaping by succecircumvented by prior training in generalized they have rediscovered procedures developed not identify it as such, Miss Newcomb demonsa more dramatic alternative to shaping than range of behaviors is limited, she nonethele regarding the development of early adaptive sequently interpreted as avoidance condition

photograph #1 reveals that prior to flop over on her face if placed in a sitting angle. In the course of the fall her arms we when placed on the ball and rolled forward (aildly fearful situation related to the haza the forward protective reflex and head exten procedure involved no shaping by successive were vigorous, appropriate, and full-blown of Photograph #3 shows that the elicited adapti with touch and social stimulation. In photograph forward protective reflex is converted grasping responses through the use of an attoobtain by reaching

Mar, Ann Newcomb s clinically brills tation" techniques closely parallels, and may be seguin in his development of prehension to 1907 and Ball, 1971). For this writer, into within the context of the Escape-Avoidance of mere academic exercise. It could serve as the enhancing collaboration. Especially in term between an elicited reflex and its conversion tioners may be able to contribute a great deposit of reinforcement procedures, they may be able taking place in facilitation training.



COMMENTS: AMBULATION

other operant conditioners have discovered the fact that of shaping by successive approximations can sometimes be aining in generalized imitation. Stated more accurately, rocedures developed by Itard and Seguin. Although she does Miss Newcomb demonstrated what, for certain behaviors, is ive to shaping than is generalized imitation. Though the mited, she nonetheless provided an exciting revelation to of early adaptive behavior through what this writer subavoidance conditioning

veals that prior to training this 30 month-old child would placed in a sitting position with legs extended at a 450 the fall her arms would hang uselessly at her sides. However, and rolled forward (photograph #2), the child experienced a related to the hazard of injury through falling. As a result, eflex and head extension were suddenly elicited. While this aping by successive approximations, the postural adjustments te, and full-blown on the <u>first</u> attempt at elicitation. the elicited adaptive responses were immediately reinforced imulation. In photograph #4 we see that the by now condiereflex is converted into purposive, voluntary reaching and gh the use of an attractive incentive which the child can only

scrinically brilliant application of the Bobath facilily parallels, and makes use of the same principles employed
ment of prehension through the ladder technique (see Seguin,
or this writer, interpreting Miss Newcomb's demonstration
le Escape-Avoidance conditioning model, is much more than a
It could serve as the point of departure for a mutually
Especially in terms of engineering transitional stages
lex and its conversion to voluntary movement, operant condi-

ex and its conversion to voluntary movement, operant condicontribute a great deal. Through the appropriate application ares, they may be able to accelerate the rate of learning ation training.



On the other hand, detailed information regarding ively elicited adaptive responses resides within the field especially in the work of the Bobaths. Cognitive theorist could contribute insights regarding the development of suggeneralizations; generalizations that would permit a more to the environment.

While it is productive to view this demonstration of Escape-Avoidance conditioning, other significant concombe ignored. It is obvious, for example, that in the course child becomes increasingly responsive to, and "turned on" around her. In other words, the procedure is a highly effectivation and arousal. It is quite possible that a sound fail to even "register," would now be sufficient to make the source of the stimulation. Such responses can form the learning. However, if they do not register, many learning

The reaching and grasping behaviors elicited and a Newcomb were directly obtained and are important, practical own right. Beyond this, they have obvious potential for a training to such areas as self-help skill training. As not plan, the variable of modeling and imitation does not direct training unit. In one sense, the category of crisis probabled to the child's pre-training state, though somewhat

Even to the casual observer, viewing the video tag demonstration would reveal the obvious fact that in terms related to the teacher, the therapeutic success was no les

For further discussion refer to Section IV.

Thomas S



and, detailed information regarding a broad range of reflexe responses resides within the field of physical therapy, of the Bobaths. Cognitive theorists such as Kephart (1960) hts regarding the development of such responses into motor alizations that would permit a more flexible adaptive response

oductive to view this demonstration within the perspective nditioning, other significant concomitant phenomena cannot ious, for example, that in the course of this training the ngly responsive to, and "turned on" by what is going on words, the procedure is a highly effective approach to . It is quite possible that a sound that previously would ," would now be sufficient to make the child turn toward ulation. Such responses can form the basis of, or cue new they do not register, many learning opportunities are lost.

nd grasping behaviors elicited and reinforced by Miss obtained and are important, practical attainments in their s, they have obvious potential for positive transfer of as self-help skill training. As noted in the instructional modeling and imitation does not directly relate to this sense, the category of crisis problems might have been pre-training state, though somewhat tangentially.

sual observer, viewing the video tape produced during this veal the obvious fact that in terms of subjective factors, the therapeutic success was no less than inspiring.

scussion refer to Section IV.

Thomas S. Ball



UNIT 2

STIMULATION

Orff-Schulwerk

ORFF-SCHULWERK

OBJECTIVE:

To provide an opportunity to participate in a social process using the Orff-Schulwerk method providing an opportunity to creatively participate in a learning

situation.

INSTRUCTIONAL METHODS

- 1. Leader chants, "Follow the drum," and a circle (rondo form) is formed.
- 2. Leader chants, "Names, names, what's your name?" to initiate the "A" development of the rondo form. She uses eye contact while chanting to encourage participation by all members of the group, and she accents and enunciates the chant.
- 3. Leader states, "My name is," to indicate it is her "turn" in the "B" section of the rondo form. After name is given and mimicked by group, leader returns to "A" of rondo form.
- 4. Leader repeats "A" and "B" of rondo form until each member has an opportunity for a turn. If member is unable to respond, his period of time (possession), is still given to the individual in silence.

PREREQUI

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- Grounied
- Each time sona othe



ORFF-SCHULWERK

ide an opportunity icipate in a social using the Orffrk method providing rtunity to creatively pate in a learning on.

PREREQUISITE(S): Training in: Orff-Schulwerk method; needs of the handicapped; group dynamics; behavior modification; growth and development.

IONAL METHODS

"Follow the drum," ondo form) is formed.

"Names, names, what's initiate the "A" develondo form. She uses eye hanting to encourage y all members of the accents and enunciates

LEARNING ACTIVITIES

- 1. Members follow the leader, with assistance if needed.
- 2. Members participate by chanting and/or physical movement, mimicking the leader.
- "My name is," to her "turn" in the "B" rondo form. After name micked by group, leader of rondo form.
- "A" and "B" of rondo member has an opporrn. If member is nd, his period of time s still given to the ilence.
- 3. Group repeats teacher's name accompanied by physical movement.
- 4. Each member has a turn which is his time to innovate. This time is a personal possession and is respected by other members of the group.

Orff-Schulwerk (Cont'd.)

INSTRUCTIONAL METHODS

- Leader states chant, "Make a Fire, Light it, Watch it Grow!" She dramatizes the making of a fire, using a tambour as a symbol of fire, and places the fire in the center of the circle.
- Leader initiates second phase of fire theme with chant, "When you Touch the Fire, it's Very, Very Hot! When you Touch the Fire, it Burns!" Leader approaches fire dramatically and carefully touches fire, and reacts as if burned. Spontaneous comments about fear, excitement, concern, pain are reinforced when offered by members.
- Leader chants, "When the fire is very, very hot, you blow the fire out!" She encourages each member to join together and blow the fire out. Chanting, "The fire's out, the fire is out, we've all blown it out!" The tambour is removed from the circle.
- Leader claps and chants, "Stand up! Stand up! Stand up in a circle!"
- Leader explains the sounds of the 9. body by asking, "What sounds does your body make? What sounds do your toes, feet, etc. make?" Spontaneously encouraging participants to explore and pointing out interesting sounds.
- Leader begins honverbal foot stamp-10. ing and hand clapping in a pattern to establish "A" of the rondo.

the f cente

5.

Each

- Rondo deve: the :
- A11
- Memb 8.
- Memb with
- Mem 10.





62

k (Cont'd,)

STRUCTIONAL METHODS

ates chant, "Make a Fire, Watch it Grow!" She dramamaking of a fire, using a s a symbol of fire, and places in the center of the circle.

- itiates second phase of fire h chant, "When you Touch the s Very, Very Hot! When you Fire, it Burns!" Leader s fire dramatically and careches fire, and reacts as if Spontaneous comments about itement, concern, pain are d when offered by members.
- ants, "When the fire is very, you blow the fire out!" She s each member to join together the fire out. Chanting, "The t, the fire is out, we've all out!" The tambour is removed circle.
- aps and chants, "Stand up! Stand up in a circle!"
- plains the sounds of the sking, "What sounds does make? What sounds do your t, etc. make?" Spontaneously ng participants to explore ing out interesting sounds.

gins nonverbal foot stampand clapping in a pattern ish "A" of the rondo.

LEARNING ACTIVITIES

- 5. Each member innovates while lighting the fire in the tambour placed in the center of the circle.
- Rondo form continues with continuous development of dramatic approach to the fire, imitating the leader.
- 7. All members chant and come to the center of circle and blow out the fire (tambour).
- 8. Members stand up and form a circle.
- 9. Members express individual body sounds without taking turns in rondo form.
- 10. Members take turns developing body sound "B" development.

Orff-Schulwerk (Cont'd.)

INSTRUCTIONAL METHODS

11. Leader chants and motions as she slowly ll. Me lowers body to floor, "Let's all sit down," (while lowering her voice).

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A.

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13.

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16.

- 12. Leader places a bass xylophone, an alto 12. metalophone, and a regular xylophone in the center of the circle. Leader chants, "There are many sounds you hear, play your sounds for us." "Who will play?" The leader encourages voluntary participation rather than having the children take turns in the order of the circle.
- 13. Leader chants, "Choose a friend to play with you, choose a friend by name."
- 14. Leader chants, "Choose another friend to play with you, choose a friend by name." Leader encourages listening to each other and the composition in three parts is developed.
- 15. Rondo continues until there are no volunteers. If member seems interested but does not seem to understand the format, the leader encourages participants and provides needed assistance. The leader sometimes asks another member to assist. When group does not draw composition to closure, she says "thank you" in a firm and final tone of voice.
- 16. Leader chants, "The time has come to go, the time has come to go," and leads the members from the room.



d.)

NAL METHODS

notions as she slowly loor, "Let's all sit wering her voice).

- pass xylophone, an alto a regular xylophone in e circle. Leader chants, sounds you hear, play your "Who will play?" The s voluntary participation ng the children take turns the circle.
- choose a friend to play a friend by name."
- Choose another friend, choose a friend by acourages listening to be composition in eveloped.
- until there are no volper seems interested
 m to understand the
 er encourages particies needed assistance.
 imes asks another memwhen group does not draw
 losure, she says "thank
 nd final tone of voice.

The time has come to come to go," and leads the room.

LEARNING ACTIVITIES

- 11. Members sit down, forming a circle.
- 12. One member volunteers to play and enters the center of the circle, selecting one of the three instruments.
- 13. The member in the circle chooses another person to play with him, using his name if able, and the second person chooses an instrument.
- 14. A third member joins the group and together they develop a composition.
- 15. All members have an opportunity to participate.

16. Members leave room with spontaneous good-byes, so long - bye-bye, singing and chanting... and aroused.



PLAN: Orff

2

l. The leader develops chant for leading group into the room.

Group forms circle. Group performs rondo in chant, "Names, names, what's your name?"

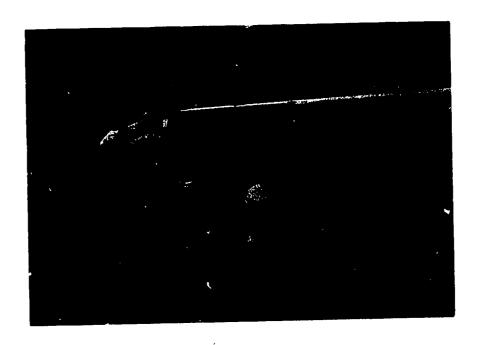


Group of nine children entering room for first Orff-Schulwerk session.

PLAN: Orff-Schulwerk

ps chant for to the room. le. Group perhant, "Names, ur name?" 2. Leader develops theme on fire. Leader places tambour in center of circle and chants, "Make a fire, light it, watch it grow." After participation, leader chants, "When the fire is very, very hot, you blow the fire out." All blow the fire out together.





nildren entering room Schulwerk session. The children are encouraged to innovate and use imagery in making the fire in the tambour.



PLAN: Orff-Schulwerk (Cont'd.)

3. Leader has group stand and participate in exploring the sound of the body. After exploration a nonverbal clap and stamp "A" of rondo is developed, and the members innovate with body sound in response for development of "B" of rondo.



The teacher encourages the group to listen to various sounds made with their body.

"There are manyour sounds for has the choice Leader chants play with you A friend is conselected by the chants, "Choowith you, chooking friend friend in the chants of the



The children each other an together.

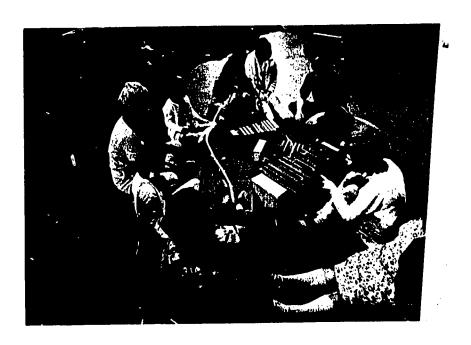


chulwerk (Cont'd.)

s group stand and particikploring the sound of the ter exploration a nonverand stamp "A" of rondo is , and the members innovate sound in response for ht of "B" of rondo.



er encourages the group to various sounds made r body. 4. Group participating in rondo chant,
"There are many sounds you hear, play
your sounds for us." The participant
has the choice of three instruments.
Leader chants, "Choose a friend to
play with you, choose a friend by name."
A friend is chosen and an instrument
selected by the friend. The leader
chants, "Choose another friend to play
with you, choose a friend by name. The
third friend plays with the other two.



The children are encouraged to listen to each other and to develop a composition together.

PLAN: Orff-Schulwerk (Cont'd.)



Orff

•



chulwerk (Cont'd.)







Orff Activities





NARRATIVE

Orff-Schulwerk is a creative process which participation in the process. The process is more cerns itself with the complexities of the body, to common to man. It is concerned with calling out communication.

Orff-Schulwerk is improvisation. Individual becomes a self motivating power in performance. Success in self-expression. Orff-Schulwerk is a first an activity of the mind with subsequent man Orff-Schulwerk, in dealing always with total expression speech patterns and gesture for basic mater words of meaning, but can be nonsense sounds or sefinger snapping, stamping, and patschen (clapping serve as an extension of sound made by the body apatterns more than melodic. Melody grows out of children's play and children's calls.

A principle of Orff-Schulwerk is to start stimulating the child's total pre-disposition to other specialization can be built upon this broad

Feedback is immediate through acceptance contribution and participation in Orff-Schulwerk level of inner job will vary according to his intraction with the group including self-expression. belief in himself and his expression cannot be do "right" or "wrong." His unique contribution show and the criteria, by which it is accepted, or mode ceive, such as through listening, looking, and en



This material describing Orff-Schulwerk is tale Creativity," a report to the U. S. Office of Bellflower Unified School District, Bellflower

reative process which involves every child through
The process is more than a musical method, it conities of the body, the spirit, and deepest feelings
ed with calling out all possible forms of fruitful

provisation. Individual awareness to active procedure ver in performance. Orff-Schulwerk is a step-wise Orff-Schulwerk is a rhythmic education. Rhythm's Orff-Schulwerk is a rhythmic education. Rhythm's with subsequent manifestation in sound and movement. I ways with total expression, is natural and alert in esture for basic material. Ideas are not necessarily nonsense sounds or sounds of gesture like clapping, and patschen (clapping of hands on thighs). Instruments and made by the body and continue first as rhythmic made by the body and continue first as rhythmic selection.

Schulwerk is to start education by utilizing and l pre-disposition to express himself so that any built upon this broad and solid basis.

e through acceptance or modification of each persons on in Orff-Schulwerk group design. The individual's according to his inner feelings of success in particiting self-expression. The reinforcement of the child's appreciation cannot be done in terms of telling him he was appreciated accepted, or modified, be within terms he can perening, looking, and empathy for a particular feeling.

Orff-Schulwerk is taken from "orff-Schulwerk Design for the U.S. Office of Education of ESEA Title III Project, l District, Bellflower, California, 1968.



; 73

STIMULATION: ORFF-

INSTRUCTIONAL L

1. Describe how this unit will be useful in dea

It allows channeling of unacceptable behavio Respect for self and others is inherent in t unit can be non-verbal and adapted to the le

2. Describe how this unit will be useful in sti

Multi-stimuli are used. The teacher and stuthrough involvement and mutual stimulation, a

3. Describe how this unit will contribute to mo

Development of a theme in rondo form is imit responses demonstrate modeling. The social model to which the individual can relate in a the social process is reinforced. Orff-Schumodeling of other experiences (i.e., school)

4. Is this unit's theoretical orientation direct

In planning an Orff-Schulwerk session a plan behavior is made, indirectly, but once the tion becomes direct in response to the obser-

5. Is the unit's theoretical orientation (1) be eclectic? Explain.

Eclectic. The process includes learning th techniques, group dynam; s and cognitive le



STIMULATION: ORFF-SCHULWERK

INSTRUCTIONAL LEVELS

this unit will be useful in dealing with behavioral change.

nneling of unacceptable behavior and rewards for approproate behavior. self and others is inherent in the structure of Orff-Schulwerk. This non-verbal and adapted to the level of behavior.

this unit will be useful in stimulating action and arousal.

are used. The teacher and student(s) are co-authors of the unit and vement and mutual stimulation, arousal and action is accomplished.

this unit will contribute to modeling and imitation.

of a theme in rondo form is imitative and the individual's innovative monstrate modeling. The social process in Orff-Schulwerk provides a the individual can relate in any group situation. Contributing to rocess is reinforced. Orff-Schulwerk provides an opportunity to test other experiences (i.e., school, home, play yard, church, etc.).

's theoretical orientation direct or indirect?

an Orff-Schulwerk session a plan of action in handling anticipated made, indirectly, but once the session begins the theoretical orienta-direct in response to the observable behavior.

s theoretical orientation (1) behavioristic, (2) cognitive, or (3) xplain.

he process includes learning theory, behavior theory, encounter group dynamics and cognitive learning.



6. Describe how the unit provides for the transfer

The following transferable areas are reinforced to the situation; developing use of descriptive respect for equipment; sensitivity to sounds are properties of instruments; increased attention attitudes; knowledge of basic concepts; and most enjoyment while learning.

7. Describe how this unit relates to other training

The adaptation of this unit is only limited by (i.e., grooming, self-care, motor coordination etc.). The structure of Orff-Schulwerk is app.

8. Describe how this unit might be affected by the or personality.

The instructor should have the following qualitative and must enjoy the activity. She must each individual's innovative response. She must and exhibit spontaneity. She should lack inhibit and to provide a model. She should be resource tools for theme development, be knowledgeable capable of structuring a functional activity.



he unit provides for the transfer of training.

transferable areas are reinforced: independent responses appropriate on; developing use of descriptive resources (verbal/non-verbal); uipment; sensitivity to sounds and the knowledge of the physical instruments; increased attention span and retention; appropriate wledge of basic concepts; and most of all experiencing fun and e learning.

his unit relates to other training areas.

of this unit is only limited by the imagination of the teacher g, self-care, motor coordination, verbal skills, arts and crafts, ructure of Orff-Schulwerk is applicable in any learning situation.

his unit might be affected by the instructor's teaching technique

should have the following qualities: She/he must be capable of being nust enjoy the activity. She must respect and be capable of developing l's innovative response. She must be sensitive to the group process contaneity. She should lack inhibition so as to facilitate interaction a model. She should be resourceful in developing germ statements and he development, be knowledgeable of the needs of individuals, and be cucturing a functional activity.

For information on training for Orff

Mrs. Carol H. B Program Directo Social Developm Fairview State 2501 Harbor Bou Costa Mesa, Cal

and she will assist you in locating trainers

The University of California at River Pepperdine College in Los Angeles, San Fernand have offered courses on Orff-Schulwerk at var

The Department of Mental Hygiene, Bur has provided training of clinicians across th providing training in Orff-Schulwerk to inter

MATERI

Glockenspiels Xylophones Metallophones

Sources for Orff-Schulwerk instruments include

Magnamusic-Baton, Inc. 6390 Delmar Boulevard St. Louis, Missouri 931

Peripole, Inc. 51-17 Rockaway Boulevard Far Rock Away, New York

Children's Music Center 5373 W. Pico Boulevard Los Angeles, California



nformation on training for Orff-Schulwerk, contact:

Mrs. Carol H. Bitcon RMT Program Director Social Development Program Fairview State Hospital 2501 Harbor Boulevard Costa Mesa, California 92626

ssist you in locating trainers by geographical areas.

iversity of California at Riverside, Los Angeles, Irvine, San Diego, ege in Los Angeles, San Fernando State College, Long Beach State College, ourses on Orff-Schulwerk at various times.

partment of Mental Hygiene, Bureau of Training, Sacramento, California, raining of clinicians across the state, and various state hospitals are ning in Orff-Schulwerk to interested clinicians.

MATERIALS

Glockenspiels Xylophones Metallophones

Drums and timpani Small percussion instruments

ff-Schulwerk instruments include:

Magnamusic-Baton, Inc. 6390 Delmar Boulevard St. Louis, Missouri 93130

Peripole, Inc. 51-17 Rockaway Boulevard Far Rock Away, New York 11691

Children's Music Center 5373 W. Pico Boulevard Los Angeles, California 90019



ORFF-SCHULWERK

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- A Shufflebook, Richard Hefter and Moskop, Western



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Call and Response, rhythmic group singing, Ella Jen The Sesame Street Learning Kit.

MOVIES

"Music for Children." An infectious exposition of the latent musical inclinations of children in Salzburg, the film demonstrates how easil lead to master of complicated harmony. Prod Canada. (Code 407022 - 13 minutes - Black 8

Additional resource information available from Care



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Carl Orff and Gunild Keetman, HM 30652/HM, 53, 54 & 55.

LPM 18303 Hi-Fi.

e, rhythmic group singing, Ella Jenkins, Folkways Record FC7308.

t Learning Kit.

ren." An infectious exposition of the Carl Orff System of developing t musical inclinations of children. Filmed at famed Mozarteum School rg, the film demonstrates how easily the natural rhythms of childhood aster of complicated harmony. Produced by the National Film Board of (Code 407022 - 13 minutes - Black & White, rental \$6.00)

rce information available from Carol Bitcon (see page 27).

COMMENTS: Orff-S

Just as the interpretation of Miss Newconf escape-avoidance yielded new insights into that technique, so also is the significance of within the framework of generalized imiation.

Frequent references to imitation were m there is a vast difference between imitation, a imitation, a concept rediscovered, developed an and others in the field of operant conditioning generalized imitation will be clarified and a p dure will be provided.

> Generalized Imitation: It is important technical from the popular meaning of i and Sherman (1964) pointed out that a m behavior of a model does not guarantee the two behaviors was functional in pro the observer. This is a subtle but cri example, if a little boy sees his father sing a lever on a vending machine and d say that he learned that pressing a lev The presence of the father, pe reward. The child might have witnessed essary. automatically, as by an invisible opera response. On the other hand, if the ch the father's idiosyncratic gestures, hi ausence of any overt attempt to encoura duplications, we see generalized imitat because it has become intrinsically rew Stated more formally, imitation occurs responses of a model are copied in dive the absence of extrinsic reinforcement 1968, p. 375).

COMMENTS: Orff-Schulwerk

he interpretation of Miss Newcomb's facilitation programs in terms ce yielded new insights into the significance and potentialities of o also is the significance of Orff-Schulwerk more fully appreciated ork of generalized imiation.

references to imitation were made in the instructional plan. Yet ifference between imitation, as casually understood, and generalized ept rediscovered, developed and conceptually refined by Baer, Lovaas field of operant conditioning. In what follows, the concept of tion will be clarified and a practical example of a training procedided.

ed Imitation: It is important to differentiate the from the popular meaning of imitation. Thus, Baer an (1964) pointed out that a mere repetition of the of a model does not guarantee that the similarity of pehaviors was functional in producing the behavior in ever. This is a subtle but critical distinction. For if a little boy sees his father obtain candy by presever on a vending machine and does likewise, we can only he learned that pressing a lever led to a tangible The presence of the father, per se, was perhaps unnectable child might have witnessed the sequence carried out cally, as by an invisible operator, and learned the

On the other hand, if the child begins to duplicate or's idiosyncratic gestures, his gait, etc., in the of any overt attempt to encourage or reward these lons, we see generalized imitation. The child imitates it has become intrinsically rewarding to "be like dad." ore formally, imitation occurs "when many different of a model are copied in diverse situations, often in the of extrinsic reinforcement" (Gewirtz and Stingle,

375).



COMMENTS (Cont'd.)

The effectiveness of imitation training ing was clearly revealed in a study by B (1967), who worked with profoundly retar neous imitative behavior, either vocal o food as reinforcement, they taught the c e.g., raising the left arm, putting on a prior demonstration by an experimenter. through successive approximations and fa matching of the experimenter's responses subjects began spontaneously imitating n first having to be trained. While most tions were reinforced, some were not. R called "probes," persisted as long as so were reinforced. Verbal imitations were patterns of motor imitations, e.g., in o menter said, "Do this," rose from his ch the room, turned toward the subject, sai seat. The result was that a generalized tially achieved on a motoric-gestural le subsequent verbal learning, i.e., childr sounds prior to training, imitated the "Ah." (Ball, 1967.)

In contrast to the laborious and relative developed by Baer, Carol Bitcon's adaptation of itively incorporated what appears to be a series generalized imitation. In addition to the unique, unlike the Baer technique, the Orff method training and the promotion of activation and are methodology, it recaptures the subtleties of imit Seguin (1907). Thus,

Imitation is first induced by the concertion from the teacher to the child...



A research investigation, currently in progr technique for training generalized imitation

iveness of imitation training in facilitating other learnearly revealed in a study by Baer, Peterson and Sherman worked with profoundly retarded children without spontaative behavior, either vocal or motor. Selectively using inforcement, they taught the children a series of responses ing the left arm, putting on a hat, etc., identical to a hstration by an experimenter. Initially, intensive shaping ccessive approximations and fading was required to induce a f the experimenter's responses. Gradually, however, the egan spontaneously imitating new responses without their ng to be trained. While most of these spontaneous imitareinforced, some were not. Responding to the latter items bbes," persisted as long as some other imitative responses proced. Verbal imitations were then incorporated into the f motor imitations, e.g., in one demonstration the experi-H, "Do this," rose from his chair, walked to the center of turned toward the subject, said "Ah," and returned to his result was that a generalized tendency to imitate, iniieved on a motoric-gestural level, markedly facilitated verbal learning, i.e., children who would not imitate or to training, imitated the entire sequence, including 11, 1967.)

t to the laborious and relatively stilted procedures methodically Carol Bitcon's adaptation of the Orff-Schulwerk method has intued what appears to be a series of powerful techniques for developing ion. In addition to the uniquely facilitating effect of the rondo aer technique, the Orff method exploits the possibilities of group romotion of activation and arousal. In its extensions beyond Baer's captures the subtleties of imitation training incorporated by us,

is first induced by the concentrated operation of attenthe teacher to the child... But after any practical

stigation, currently in progress, will formally evaluate Orff as a raining generalized imitation.



extension of the imitative faculty is acquist be carried from the quiet closet pre imitation to the open room where group imcontagious power...(pp. 90-91).

He adds,

If the exercise is already quite familiar not so much the learning of new gestures, more rapid performance of old ones, the con a slightly curved line, the more experextremities of the concavity, each of the and the teacher; thus doubly impulsed and

The Baer technique was the method of choi atic research on generalized imitation. He demonstrated in the Orff context. Yet once such init is no reason to remain encumbered by a narrow gaussian statement of the context.

It is important to interpret Orff within tioning approach to generalized imitation. Specito develop a generalized imitation that could subtype speech training program. Such programs are fashion. However, the identification of Orff-Schimitation might be the first step toward develops

Viewed in terms of the variable, <u>subjective</u> very effective. Although, as Mrs. Bitcon has obsticipant to analyze or be accountable for feeling



In comparison with the Baer procedure, a disactive such as hand clapping (see item 10 of Incontext of a specific ongoing activity. The by the introduction of the activity. In other routine, the start of the routine signals the hand clapping. Using this kind of cue, he conwithout ever paying attention to the leader. this fashion would not constitute generalized

the imitative faculty is acquired, this acquisition ed from the quiet closet prepared for individual the open room where group imitation displays its ower...(pp. 90-91).

se is already quite familiar, and has for an object, the learning of new gestures, as the correction and erformance of old ones, the children will be arranged curved line, the more expert at the center and of the concavity, each of them seeing all the rest her; thus doubly impulsed and doubly taught.

nnique was the method of choice in the initial stages of systemeralized imitation. He demonstrated the trainability and gentation in a more precise and controlled fashion than would be context. Yet once such initial studies are completed, there in encumbered by a narrow gauge training technique.

ant to interpret Orff within the Baer and Lovaas operant condigeneralized imitation. Specifically, Orff training might serve ized imitation that could subsequently be exploited in a Lovaas program. Such programs are not ordinarily linked in this he identification of Orff-Schulwerk as training in generalized he first step toward developing novel program configurations.

rms of the variable, <u>subjective factors</u>, Orff may prove to be hough, as Mrs. Bitcon has observed, it does not force the paror be accountable for feelings engendered in the group situation,

th the Baer procedure, a disadvantage to Orff is that imitation and clapping (see item 10 of Instructional Plan) occur within the cific ongoing activity. The child's behavior may be cued merely on of the activity. In other words, because he has learned the tof the routine signals the fact that the time has arrived for using this kind of cue, he could carry out the appropriate response ing attention to the leader. But hand clapping brought about in do not constitute generalized imitation.

COMMENTS (Cont'd.)

like the Esalen-type encounter group it can "turn on" all par student alike. In fact, it is the virtue of Orff that the tended dissolves during the Orff process. This means that the stude at least potentially, can become part of what is an existent for the teacher. The retardate's naive yet joyful spontanity therapeutic sense, help an "uptight," intellectually oriented own spontanity. In practical terms, this means that the retarded own spontanity. In practical terms, this means that the retarded possible motivation for working with the retarded. It appears the field of mental retardation never bridge this interpersulves and their students.

For additional discussion, refer to Section IV.



Inter group it can "turn on" all participants, teacher and t is the virtue of Orff that the teacher-student distinction process. This means that the student participates in and, become part of what is an existentially enhancing experience ardate's naive yet joyful spontanity may actually, in a "uptight," intellectually oriented adult to express his cal terms, this means that the retarded individual may therapist as a human being, thereby establishing the best orking with the retarded. It appears that many professionals ardation never bridge this interpersonal gap between them-

cussion, refer to Section IV.



UNIT 3

COMMUNICATION

Α.	Word Association	Р.	34
в.	Auditory Discrimination	P.	42
c.	Receptive Understanding	Р.	51
	References	р.	56



INSTRUCTIONAL METHODS

- 7. "____, Do you see a picture of a bunny?" etc. (Give each child a chance to select picure.)
- 8. "Let's put the bunny in his box." (Place bunny in box. Invite student's help.)
- 9. " , What else is in the box? What is it?" etc. (Follow the same procedure as with rabbit.)
- 10. "Can you show me the picture of a bunny?"
- 11. "___, Would you like to put the turtle in the box?" "Let's close the box."



NSTRUCTIONAL METHODS

you see a picture of a c. (Give each child a select picure.)

the bunny in his box."
ny in box. Invite
help.)

t else is in the box? What c. (Follow the same proceth rabbit.)

how me the picture of a

ld you like to put the the box?" "Let's close

LEARNING ACTIVITIES

- 7. To draw individual's attention to the learning activity. Child looks at pictures and selects appropriate picture by pointing or picking it up.
- 8. To conclude one learning process. Eliminate distraction during succeeding lesson.
- 9. Initiation of new object lesson.
- 10. Review of preceding object lesson.
- 11. Conclusion of object lesson.

1.

Gaining attention of children



"Who knows what is in the box?"

3.

36

Children
look at
pictures
and select
appropriate
picture



2.

Gaining recognition of object

4.

Association of object and pictu

"Maybe we will see a picture of a bunny."





what is in the box?"

2.

Gaining recognition of object



"What is this?"



picture of a bunny."

4.

Association of object and picture



NARRATIVE

In working with retarded children, it is that are concrete, motivating, stimulating, and m provide for some transfer of learning in a situat rewarding.

The objective of this presentation was to turtle and rabbit) to arouse the children's visual awareness. It was hoped to have them identify an lating them and, in imitation of their teacher,

Finally, the children were to select the the pets presented to them from the Peabody Kit.



vith retarded children, it is essential to provide experiences notivating, stimulating, and meaningful--experiences that will enserve in a situation that is both enjoyable and

ve of this presentation was to present concrete objects (the to arouse the children's visual, auditory and kinesthetic hoped to have them identify and name the animals while manipuimitation of their teacher, repeatedly naming them.

e children were to select the appropriate picture likeness of to them from the Peabody Kit.



COMMUNICATION: WOR

INSTRUCTIONAL

- This unit hopes to help the child associate a word or symbol (picture). Next step, the associating a picture or object with a specing the object by name.
- The use of live animals is effective in an although there is the possibility that sor touch and feed the animals uses additional
- 3. Describe how this unit will contribute to The teacher says the name of the animals. tunity to repeat the name. They are also saying "Good-bye" to the animals.
- 4. Is this unit's theoretical orientation di Direct. The objects as well as pictures The intent is to learn the words for thes
- 5. Is the unit's theoretical orientation (1) (3) eclectic? Explain.

Eclectic. Although the language is basic the animals, is used as a means of teaching



COMMUNICATION: WORD ASSOCIATION

INSTRUCTIONAL LEVELS

w this unit will be useful in dealing with behavioral change.

opes to help the child associate a real or live (rabbit) object with model (picture). Next step, the child would develop the concept of a picture or object with a spoken word demonstrating this by identifyect by name.

w this unit will be useful in stimulating action and arousal.

live animals is effective in arousing interest in young children ere is the possibility that some may be fearful. Permitting them to eed the animals uses additional senses and involves the child further.

w this unit will contribute to modeling and imitation.

says the name of the animals. The children are then given the opporepeat the name. They are also encouraged to imitate the teacher in d-bye" to the animals.

t's theometical orientation direct or indirect? Explain.

e objects as well as pictures of the objects to be identified are used. is to learn the words for these objects.

's theoretical orientation (1) behavioristic, (2) cognitive, or c? Explain.

Although the language is basically cognitive, action, such as handling, is used as a means of teaching words.



6. Describe how the unit provides for the transfer.

The children will learn that there is a word of

7. Describe how this unit relates to other training.

This unit is related to socialization, such as It would be a step toward further language deviation.

8. Describe how this unit might be affected by thor personality.

The teacher would need to be interested in an in bringing children and animals together. The amount of equanimity.

ow the unit provides for the transfer of training.

en will learn that there is a word or name for objects.

ow this unit relates to other training areas.

is related to socialization, such as taking turns and care of animals. e a step toward further language development.

ow this unit might be affected by the instructor's teaching technique lity.

r would need to be interested in animals and to be gentle and patient g children and animals together. The process may require a certain equanimity.

101 ERIC

Word Association (Cont'd.)

Equipment List

1 table

4 chairs

1 standing mirror

1 Peabody Kit #P

Pictures of Ball, Bunny, Turtle

Supplies List

Ball

Turtle (live)

Rabbit (live) and food

Boxes

Signs

Bibliog

See com

Evaluat

1. Pre

2. Der

3. En

EXI

4. Te

ion (Cont'd.)

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See combined list for COMMUNICATIONS.

rror #P all, Bunny, Turtle

and food

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Tentative Guide (Last Years).

COMMENTS: Word As

This instructional plan is extremely claimently interpreted in terms of the eight questievels). It is important to note that this protect the Peabody Kit. There appears to be a real neprofoundly retarded and severely multi-handicap

More than anything else, activation and child to the outside world. If this can be done with a sense of the dramatic and of sheer discouthe Orff section, experiences of this kind can included. Here the emphasis is on spontaneity

A highpoint of the demonstration occurr rabbit to some of the children enrolled in the participated in the demonstration. Mr. Fitch, patience, aroused interest and delight, while r that these responses could give way to fear if cipitously. Where empathy can sometimes lead t served the function of a sensitive detector guition. There is a kind of artistry in this procamount of intellectual understanding of behaviouninspired teaching experience. It reflects the in those processes of nature so aptly described Platt as a form of chain reaction:

Chain-processes seem, and are, so much the universe. A waterfall. A thunders feel their changes of form, their setba though we were part of them, as though our very own. And are they not? Chain of nature which is least mechanical, whi identify with ongoing and universal pro-(1966, p. 56).

Although he did not set out to do so, M into what might be described as an "intrinsic r the world anew through the eyes of a child.

Refer to Section IV for additional disc



COMMENTS: Word Association

ctional plan is extremely clear and straightforward. It is inteld in terms of the eight questions on evaluation (Instructional ortant to note that this program provides a transitional step to here appears to be a real need for such a step in the training of and severely multi-handicapped children with the Peabody materials.

nything else, activation and arousal implies a "turning on" of the e world. If this can be done with a sense of wonderment and joy, dramatic and of sheer discovery, so much the better. As noted in xperiences of this kind can enhance everyone present, teacher emphasis is on spontaneity and innovation.

of the demonstration occurred when Mr. Fitch presented a live the children enrolled in the Santa Cruz Development Center who demonstration. Mr. Fitch, with sensitivity, gentleness and interest and delight, while remaining acutely aware of the fact so could give way to fear if the live specimen was presented preempathy can sometimes lead to distortion, in this instance, it of a sensitive detector guiding the entire process of presentation of artistry in this process that cannot be gained through any cual understanding of behavior modification, cognitive theory, or experience. It reflects the teacher's sensitivity to and delight of nature so aptly described by the renowned biophysicist John R. chain reaction:

esses seem, and are, so much more alive than the rest of se. A waterfall. A thunderstorm. Newborn puppies. We changes of form, their setbacks and advances,... as were part of them, as though their reaction systems were wn. And are they not? Chain-reactions represent the side which is least mechanical, where we can empathize and ith ongoing and universal processes that we, too, represent 56).

e did not set out to do so, Mr. Fitch provides us with a glimpse described as an "intrinsic reinforcement" for teaching--discovering ough the eyes of a child.

ection IV for additional discussion.

Thomas S. Ball



COMMUNICATI

1.

t C

0

3. t

B. AUDITORY DISCRIMINATION

PRERE(Response of any kind by OBJECTIVE: the children to a given sound. INSTRUCTIONAL METHODS

- 1. Children sit on chairs at table, beside the teacher and teacher's aide.
- Teacher begins to present items to stimulate sound.
- Teacher says, "listen, I have a surprise for you!"
- Teacher takes out "cow-sound" toy and lets each child listen to it, touch it, and manipulate it.
- Teacher takes out Rattle... etc. 5.
- Teacher takes out Squeak toy... etc.
- Teacher takes out Bell... etc.
- Teacher places all toys under a large cloth.
- Teacher places her hand under the cloth and makes one of the toys "sound-act."

9.



COMMUNICATION

B. AUDITORY DISCRIMINATION OF GROSS SOUNDS

se of any kind by ildren to a given

PREREQUISITE(S): Ability of children to show, physically or verbally, any

type of response to sound.

TIONAL METHODS

h chairs at table, cher and teacher's

to present items to H.

'listen, I have a bu!"

out "cow-sound" toy child listen to it, manipulate it.

out Rattle... etc.

out Squeak toy... etc.

out Bell... etc.

all toys under a

her hand under the one of the toys

LEARNING ACTIVITIES

1. to 2. Children should begin to show some kind of awareness of the teacher's presence.

3. to 7. Children should show some response to sound, verbally or physically.

- 8. Children watch procedure of toys being covered.
- 9. to 10. Children are encouraged to listen.

INSTRUCTIONAL METHODS

- 10. Teacher says, "What was that?"
 "Listen, listen!"
- 11. Teacher uncovers objects and asks one of the children to pick the toy which made the sound.
- 12. Teacher says, "Which one made that sound?" "Can you pick the right one?"
- 13. Teacher repeats the same procedure for the next 3 objects.



...109

NAL METHODS

t was that?"

bjects and asks en to pick the toy and.

ch one made that pick the right one?"

he same procedure jects.

LEARNING ACTIVITIES

11. to 13.

The children pick up or point to appropriate object.





1.



2.

"Listen, listen"--each child listens to "moo" sound.

3.



"Let's play a game..."--each child listens.



sten"--each child "moo" sound.



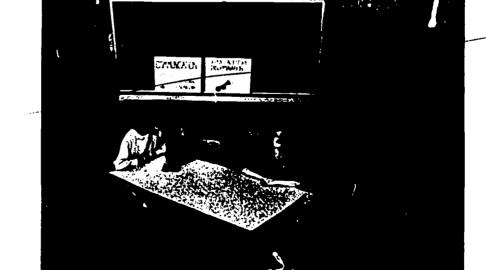
a game..."--each

.

2.



Each child manipulates the sound maker (rattle).



"Good girl; that's the right one."

112

5.



Child picks out another sound maker.

NARRATIVE

The ability to listen with an appropriat foundation for the more complex skills of encodi munication.

The objective of this presentation was tin some way to the gross sounds presented by the

It was hoped to first capture their attentically examine the noise-makers and manipula elicit correct responses to the individual sound

During the presentation, a baseline was his responses were tabulated.



ability to listen with an appropriate sense of discrimination is the or the more complex skills of encoding and decoding-the bases of com-

objective of this presentation was to motivate the children to respond to the gross sounds presented by the attractive noise-makers.

vas hoped to first capture their attention; then allow them to kinesxamine the noise-makers and manipulate them at will; and finally, to ct responses to the individual sounds presented.

ng the presentation, a baseline was established on a selected child and swere tabulated.

COMMUNICATION: GROSS AUDI:

INSTRUCTIONAL 1

1. Describe how this unit will be useful in de

This unit is intended to change behavior by sounds by the use of attractive, bright, so fort is to gain the child's attention. The sound at a time, and asking the child to it

2. Describe how this unit will be useful in s

The colorful toys used and the distinctive child with the social age of these childrenthe objects involves other senses besides involving the children.

3. Describe how this unit will contribute to

The teacher demonstrates the use of each thow the sound is produced. Each child is teacher's action to produce the sound.

4. Is this unit's theoretical orientation dir

It is direct. The purpose is to teach the sounds and these sounds are used directly

5. Is the unit's theoretical orientation (1) (3) eclectic? Explain.

Eclectic. It is action oriented, but invo and interpretation of sound as well.



COMMUNICATION: GROSS AUDITORY DISCRIMINATION

INSTRUCTIONAL LEVELS

how this unit will be useful in dealing with behavioral change.

is intended to change behavior by teaching the child to attend to gross the use of attractive, bright, sound-making objects. The initial efo gain the child's attention. Then by covering the objects, using one a time, and asking the child to identify the object making the sound.

how this unit will be useful in stimulating action and arousal.

ful toys used and the distinctive sound made by each is appealing to the h the social age of these children. The actual handling and using of ts involves other senses besides hearing, thus further stimulating and the children.

how this unit will contribute to modeling and imitation.

er demonstrates the use of each toy, such as shaking the rattle, to show ound is produced. Each child is then given the opportunity to copy the action to produce the sound.

nit's theoretical orientation direct or indirect? Explain.

ect. The purpose is to teach the child to discriminate among gross d these sounds are used directly for that express purpose.

it's theoretical orientation (1) behavioristic, (2) cognitive, or tic? Explain.

It is action oriented, but involves the internal process of hearing pretation of sound as well.



INSTRUCTIONAL LEVELS (Cont'd.)

6. Describe how the unit provides for the transfer of the is hoped that by learning to listen and discription of words and parts of words.

7. Describe how this unit relates to other training

It relates to almost every other area of training hearing child, since the hearing of directions, ethe child's ability to listen.

8. Describe how this unit might be affected by the i or personality.

This unit demands patience and the willingness to the part of the teacher. The teacher needs to ha they could become distracting and confusing to the



(Cont'd.)

unit provides for the transfer of training.

by learning to listen and discriminate among gross sounds, the le to progress to discrimination among finer sounds such as those ts of words.

s unit relates to other training areas.

most every other area of training that would be used with a ince the hearing of directions, explanations, etc. depends upon ity to listen.

s unit might be affected by the instructor's teaching technique

s patience and the willingness to devote a great deal of time on teacher. The teacher needs to handle the objects carefully or he distracting and confusing to the child.

Gross Auditory Discrimination (Cont'd.)

Equipment List

Bibl:

Plastic squeeze toy Rattle Bell Cow-sound Table Chairs Large cloth

Supplies List

Sack for toys

1.

Eval

Identification card (Title)

2.

on (Cont'd.)

e)

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See combined list for COMMUNICATIONS.

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- Tentative Guide (last year's)
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 Denver Development Scale

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4 (1)

COMMENTS: Auditory Discrimination of Gross Sounds

This excellent instructional plan complements and extinitiated in the Word Association unit of Communication. One and Arousal is an extremely important variable. The training time-honored tradition in the field of sensory education, a thistorically through Montessori, Seguin, and Itard.

Piaget has shown that for young children, the old say of mind" is quite applicable. Normal young children and old an object which later disappears behind a screen lose interesting the disappeared in thin air. They fail to look for it behind the ample opportunity to do so.

One way to combat the "out of sight, cut of mind" te ing a powerful orienting response (Activation and Arousal). tion and Arousal was developed in this artistically conceive you have experienced as an adult in the course of witnessing for example, as the lady was being sawed in half, didn't you her body and noticeably wince? You visualized and vicarious her body and noticeably so compelling, in fact, that you couscene. It was probably so compelling, in fact, that you couscene it in your mind's eye. And this image remained with act.

This program, in the service of Activation and Arous the best features of a skillfully executed magic act. As in "victim" of the magician's saw, the objects, rendered all the reinforcing through carefully guided auditory, tactual and the objects of a sustained orienting reaction during the introvered with the cloth. The subjects, therefore, neither for visual and auditory properties.

The program, then, entails the most basic and funda and memory. This is a form of readiness training that will of subsequent instruction, whether cognitive or behaviorist

For further discussion refer to Section IV.

Thom



COMMENTS: Auditory Discrimination of Gross Sounds

nt instructional plan complements and extends the process d Association unit of Communication. Once again, Activation tremely important variable. The training activities follow a on in the field of sensory education, a tradition readily traced Montessori, Seguin, and Itard.

hown that for young children, the old saying "out of sight, out plicable. Normal young children and older retardates when viewing r disappears behind a screen lose interest in it and act as if it air. They fail to look for it behind the screen, even when given do so.

combat the "out of sight, out of mind" tendency is through developnting response (Activation and Arousal). To understand how Activadeveloped in this artistically conceived sequence, consider what
as an adult in the course of witnessing a top-flight magic show.
lady was being sawed in half, didn't you imagine the blade severing
ably wince? You visualized and vicariously experienced this hidden
ably so compelling, in fact, that you could hardly resist experiind's eye. And this image remained with you until the end of the

n, in the service of Activation and Arousal, incorporated some of a skillfully executed majic act. As in the case of the female ician's saw, the objects, rendered all the more interesting and carefully guided auditory, tactual and visual experiences, were stained orienting reaction during the interval in which they were oth. The subjects, therefore, neither forgot the objects or their properties.

, then, entails the most basic and fundamental lessons in attention s a form of readiness training that will pay off in almost any form action, whether cognitive or behavioristic.

discussion refer to Section IV.

Thomas S. Ball



COMMUNICATIO

C. RECEPTIVE UNDER

OBJECTIVE: Comprehension of instructions given on record.

Development of imitative behavior.

INSTRUCTIONAL METHODS

- Children and teacher are seated at table.
- Teacher says, "you're tired, you've been sitting so long--let's stand up and exercise."
- Teacher and children stand up and exercise.
- 4. Put record on "Nothing to Do."
- As record goes through marching, jumping, reaching up and down, etc., teacher models activities and children imitate.
- 6. If child is unable to do activity, teacher assists child to complete.



COMMUNICATION

C. RECEPTIVE UNDERSTANDING

on of instruction on record.

of imitative

PREREQUISITE(S):

The ability to listen and to have some

mobility.

ONAL METHODS

er are seated at

're tired, you've ng--let's stand

en stand up and

hing to Do."

rough marching, up and down, els activities ate.

e to do activity, thild to complete.

LEARNING ACTIVITIES

- 1. Not applicable.
- For children who do not respond to verbal command to stand, the teacher takes their hands and assists them in standing.
- Learning receptive understanding of command "stand up."
- 4. Not applicable.
- 5. Some children start marching with teacher to record, but assistance is given to those who need it by taking their hands to begin them marching. When jumping direction is played on record, teacher models jumping which children start imitating. Some may watch without jumping.
- 6. Teacher holds non-jumper under armpits and jumps up and down with him.



1.

One child responds to verbal command and one is assisted.



2.

4.

Marchin

continu

Exercise

continue

"Let's stand up and exercise."

3.

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Children follow directions of record. Teacher provides assistance.



"So he marched and he marched."





2.

Exercise continues.



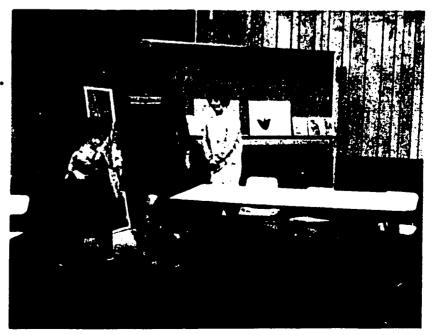
and up and exercise."



ched and he marched."

4.

Marching continues.



COMMENTS: Receptive Understanding

This instructional plan, along with the Orff-Schulwe development and utilization of imitation for instructional p point of similarity is that it exploits the possibilities of for the stimulation of imitation. Also, it employs music an that are both activating and reinforcing for the child.

Even in the brief account of the demonstration there procedure can produce the desired results. In step #5 of In Learning Activities, we see how some children begin to learn teacher's actions. Even though a child may not overtly respactivity and may learn something from it.

Unlike Orff, this plan utilizes a record rather than This could constitute an advantage in that the teacher is prestructure. The lively story and musical background provided elicit the children's active participation. It seems quite ing would help "carry" the activity—would require much less teacher than does Orff. It is also likely that the record of without loss of interest and for some, with even an enhancement

RECORD: "NOTHING TO DO"

Once there was a little boy who had nothing to do. want to play with his toys, or look at his books or out to play. He sat thinking for a long time, swing feet. As he watched them going back and forth, back he got an idea! How many things could he do with his

1. Marching So he marched and he marched, he paraded all around.
down, in and out, up and down, turn-a-bout. He marched room to room. He marched everywhere. He parade in the kitchen, in the parlor, in the bedrooms, in the said "That's enough. It's time to stop." So he mar marched, he paraded all around, in the kitchen, in the bedrooms, in the hall and said "That's enough. stop." But he didn't stop for long....



COMMENTS: Receptive Understanding

on of imitation for instructional purposes. An additional nat it exploits the possibilities of the group experience nitation. Also, it employs music and rhythm, activities and reinforcing for the child.

account of the demonstration there is evidence that the desired results. In step #5 of Instructional Methods and see how some children begin to learn through imitation of the though a child may not overtly respond, he watches the mething from it.

plan utilizes a record rather than musical instruments. advantage in that the teacher is provided with much more ory and musical background provided by the record may help ive participation. It seems quite possible that the recorder activity--would require much less improvisation from the It is also likely that the record could be played repeatedly and for some, with even an enhancement of interest.

TO DO"

little boy who had nothing to do. He didn't h his toys, or look at his books or even to go sat thinking for a long time, swinging his ched them going back and forth, back and forth, How many things could he do with his feet.

the marched, he paraded all around. Up and up and down, turn-a-bout. He marched everywhere m. He marched everywhere. He paraded all around, in the parlor, in the bedrooms, in the hall and ugh. It's time to stop." So he marched and he ded all around, in the kitchen, in the parlor, in the hall and said "That's enough. It's time to idn't stop for long....



COMMENTS (Cont'd.)

2. Jumping -

....and then he jumped and jumped so very high, so very high. He jumped and jumped and jumped jumped and stopped for a breath. Then he went jumping until he could jump no more.

3. Tip-toe

....Then he tip-toed here and he tip-toed there and fro, not too fast, not too slow. He tip-to a sound. Tip-toe here and tip-toe there, in the parlor, in the bedrooms, in the hall. He said, it's time to stop."

4. Skating -

....and he pretended there was ice all over the skating, skating on the ice. Round and round, and round, smoothly glide. He skated everywher on the ice. Round and round, gently slide. Roglide. Until he said, "I'll have to stop. The

"Now let me see. How many things can I do with

So he reached to the sky and he touched toes are sky and he touched toes. Up and down. Up and too much for me. Stop! Stop!"

While minimization of structure and the demand advantageous, these factors can also function as limit those seeking to develop variability and spontaneity i



en he jumped and jumped so very high, jumped and jumped gh. He jumped and jumped and jumped so high, jumped and stopped for a breath. Then he went right on jumping, til he could jump no more.

e tip-toed here and he tip-toed there, up and down, to ot too fast, not too slow. He tip-toed around without Tip-toe here and tip-toe there, in the kitchen, in the the bedrooms, in the hall. He said, "That's enough, to stop."

pretended there was ice all over the floor, and he went kating on the ice. Round and round, gently slide. Round smoothly glide. He skated everywhere, skating, skating. Round and round, smoothly til he said, "I'll have to stop. There's no more ice."

ne see. How many things can I do with my arms and hands."

hed to the sky and he touched toes and he reached to the touched toes. Up and down. Up and down. "And this is for me. Stop! Stop!"

mization of structure and the demand for improvisation can be se factors can also function as limitations and constraints for develop variability and spontaneity in behavior. This is not to

g -

say that such traits cannot be fostered with the present pl however, that they are given relatively greater emphasis in Spontaneity, variability, and inventiveness represent value heart of Orff as an aesthetic and philosophical system. It recognize that these values may be powerful determinants of approaches and interprets her own work.

Viewed specifically as classroom activities, this than Orff under various circumstances and with certain objection on Subjective Factors is to bring out the point the oneself to Orff, he does not simply incorporate an instruction with and "buys" a philosophy with a powerfully ingrain own. As with any other philosophic position, this could condisadvantage depending upon how it is reacted to and character that becomes formalized and codified carries with it the damust eventually defend it as a form of quasi-religious systematic criticism and revision. The flexibility built into Orff mit this to happen. In any event, the present unit should the kinds of revision and improvement dictated by practical it to mentally retarded children.

For further discussion refer to Section IV.

Thomas S.



t be fostered with the present plan. It would appear, en relatively greater emphasis in Orff-Schulwerk. and inventiveness represent values that lie at the ic and philosophical system. It is important to may be powerful determinants of how the teacher her own work.

y as classroom activities, this unit may function better roumstances and with certain objectives in mind. The tors is to bring out the point that when one commits of simply incorporate an instructional plan, he identilosophy with a powerfully ingrained value system of its ilosophic position, this could constitute an advantage upon how it is reacted to and channeled. Any approach d codified carries with it the danger that its disciples as a form of quasi-religious system that does not admit The flexibility built into Orff will probably not pery event, the present unit should readily be subject to improvement dictated by practical experience in applying ildren.

sion refer to Section IV.

Thomas S. Ball



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RECORDS:

Children: Catalog - Best Records, Books,
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UNIT 4

SELF-HELP SKILLS

- A. Self-Help Trainingl Various Behaviors
- B. Nose Blowing

ERIC Full Text Provided by ERIC

l From: A Tentative Guide for the Instruction and Retarded and Multi-Handicapped Children, Santa Cri

UNIT 4

SELF-HELP SKILLS

Self-Help Trainingl
Various Behaviors

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Nose Blowing

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de for the Instruction and Training of the Profoundly dicapped Children, Santa Cruz, California, August 1969.



SELF

A. SEL

The following are important rules of th

Teach one skill at a time.

It is best to teach one task at confused and be unable to determine wha

Teach new skills only when he has maste

The child may learn rapidly and one task to another. However, in order frustrated, progress to the next skill him. He should be able to do what is r begin teaching the next task.

Make your directions as simple and clea

Use simple language and exagger is to do.

Reinforce (reward) the desired behavior

As soon as the child has done went. Don't delay--help him know what

Work gradually.

Fit your demands to the learning to teach part of the skill at a time. You wish, and require more skill as the



SELF-HELP SKILLS

A. SELF-HELP TRAINING

ng are important rules of thumb to follow in training children.

kill at a time.

is best to teach one task at a time so that the child will not become d be unable to determine what you wish him to do.

kills only when he has mastered what he has.

child may learn rapidly and you will be tempted to quickly change from another. However, in order to avoid the child's becoming confused and progress to the next skill only when he has mastered what you are teaching ould be able to do what is requested at least 4 out of 5 times before you ing the next task.

irections as simple and clear-cut as possible.

simple language and exaggerated gestures to help the child know what he

reward) the desired behavior as it is being completed.

soon as the child has done what you are requesting, give him his reinforcet delay--help him know what he is getting the reward for.

11y.

your demands to the learning ability of the child. It is often necessary rt of the skill at a time. At first reward even poor attempts to do what nd require more skill as the child gains confidence and ability.



Try to give a great deal of practice.

It is best to allow the child as much the day, as possible, so don't make such demand

Give social reinforcement along with food rewar

Your approval can be a powerful motive food reinforcement at first, and then reduce the less often, but continue social reinforcement. responses for your approval only, he has become of the aims of this program. It may be necessary skills are to be taught, but again reduce this for your approval.

NOTE: It is important that the child master eanext skill.

BEHAVIOR TAI

ATTENTION

I. Looks at you when name is called

COMING TO YOU

- I. At least one step toward you:
 - a. with a tug on shoulder plus
 - b. light touch on shoulder plus
 - c. gesture plus spoken directio
 - d. spoken direction only



al of practice.

o allow the child as much practice during the session, and during so don't make such demands that he cannot practice what he knows.

ent along with food rewards.

l can be a powerful motivator for the child. Give both social and first, and then reduce the food given. That is, begin giving food ue social reinforcement. When the child will make the desired roval only, he has become a more socialized person, which is one ogram. It may be necessary to reintroduce food rewards when new t, but again reduce this as the child shows that he will work

that the child master each of these before progressing to the

BEHAVIOR TAUGHT

you when name is called.

one step toward you:

n a tug on shoulder plus spoken direction at touch on shoulder plus spoken direction ture plus spoken direction ten direction only



COMING TO YOU (Cont'd.)

- At least 5 feet toward you:
 - with gesture plus spoken direction
 - b. spoken direction only

SITTING DOWN

- Will sit down when standing in front of a co
 - a. with a gentle push on top of shoulder push a light touch on top of shoulder push.
 - with a downward gesture plus spoken din
 - with spoken direction only
- Moves at least 5 feet to chair and sits down
 - with a sweeping downward gesture plus
 - with spoken direction only
- With teacher at least 5 feet from child and III. chair, will sit down:
 - with downward gesture plus spoken direct
 - b. with spoken direction only

REMAINING SEATED

- Child will remain seated for 10 seconds, w I. front of him, using:
 - gesture for "stay" plus spoken direction
 - b.
 - spoken direction only c.



<u>feet</u> toward you:

esture plus spoken direction direction

own when standing in front of a chair:

gentle push on top of shoulder plus spoken direction light touch on top of shoulder plus spoken direction downward gesture plus spoken direction spoken direction only

east 5 feet to chair and sits down:

sweeping downward gesture plus spoken direction spoken direction only

her at least 5 feet from child and child at least 5 feet from last down:

lownward gesture plus spoken direction spoken direction only

remain seated for 10 seconds, with teacher standing in him, using:

re for "stay" plus spoken direction, plus restraining touch re plus spoken direction direction direction



REMAINING SEATED (Continued)

II.

- away, using:
 - a. gesture plus spoken direction

Child will remain seated for 10 sec

- b. spoken direction only
- III. Child will remain seated for $\frac{1}{2}$ minimakes, using:
 - a. gesture plus spoken direction
 - b. spoken direction only

STANDING UP

- I. Will stand up with teacher directly
 - a. a gentle lift under arm or sho
 - o. a light touch and gesture plus
 - c. upward gesture plus spoken dire
 - d. spoken direction only
- II. Will stand up with teacher at leas
 - a. with upward gesture plus spoke
 - b. with spoken direction only

UNDRESSING: T-SHIRT

- I. Shirt off the child except for one shirt off the rest of the way with
 - . pulling slightly at shirt, plu
 - b. giving spoken direction only



tinued)

ill remain seated for 10 seconds, with teacher at least 5 feet sing:

ture plus spoken direction ken direction

ill remain seated for 1 minute, with teacher at least 5 feet sing:

ture plus spoken direction ken direction

and up with teacher directly in front, with:

entle lift under arm or shoulder plus spoken direction ight touch and gesture plus spoken direction ard gesture plus spoken direction ken direction only

and up with teacher at least 5 feet away:

h upward gesture plus spoken direction h spoken direction only

ff the child except for one shoulder and arm. Child takes ff the rest of the way with teacher:

ling slightly at shirt, plus spoken direction ing spoken direction only



UNDRESSING: T-SHIRT (Cont'd.)

- II. Shirt half-way off (pulled over
 with teacher:
 - a. pulling slightly at shirt,
 - b. giving spoken direction only
- III. Shirt completely on, with teach
 - a. pulling slightly at shirt,
 - b. spoken direction only

DRESSING: T-SHIRT

- I. Shirt on except for one remaini
 He will push it through with:
 - a. a push on his arm, plus spo
 - b. spoken direction only
- II. Shirt on, except for one empty
 - a. push on the arm, plus spoke
 - b. spoken direction only
- III. Shirt over head, both sleeves
 - a. lightly touching the arms, o. spoken direction only
 - V. Hand shirt to child with bottom
 - over his head and puts arms in
 - a. gently guiding the directi
 - b. spoken direction only
 - . Shirt handed to child. He mus
 - a. with necessary guidance by
 - b. spoken direction only



```
IRT (Cont'd.)
rt half-way off (pulled over head, but both arms in sleeves)
h teacher:
pulling slightly at shirt, plus spoken direction
giving spoken direction only
rt completely on, with teacher:
pulling slightly at shirt, plus spoken direction
spoken direction only
rt on except for one remaining sleeve. Child's hand in the sleeves.
will push it through with:
a push on his arm, plus spoken direction
spoken direction only
rt on, except for one empty sleeve:
push on the arm, plus spoken direction
spoken direction only
rt over head, both sleeves empty. Pulls shirt on with teacher:
lightly touching the arms, plus spoken direction
spoken direction only
d shirt to child with bottom opened toward him. He then pulls shirt
r his head and puts arms in sleeves, with teacher:
gently guiding the direction of the shirt plus spoken direction
spoken direction only
rt handed to child. He must locate the bottom of it and put it on:
with necessary guidance by teacher, plus spoken direction
 spoken direction only
```



UNDRESSING: TROUSERS

- Begin with elastic-banded boxer shorts. trousers nearly off; over one foot only.
 - a. placing child's hands on trousers and plus spoken direction
 - pointing to trousers, plus spoken dis
 - c. spoken direction only
- II. Seated, trousers at both knees. Removes
 - a. pointing at trousers plus spoken dir
 - b. spoken direction only
- III. Either seated or standing, trousers all when teacher:
 - a. points at trousers plus spoken direc
 - b. spoken direction only

DRESSING: TROUSERS

- I. Begin with elastic-banded boxer shorts of child's hips. Child should pull them the
 - a. giving the pants a small tug upward,
 - b. spoken direction only
- I. Pants on child, pulled up to knees. He on, with teacher:
 - a. giving the pants a small tug upward,
 - b. spoken direction only
- II. Both legs in pants, but pulled up to and the rest of the way on, with teacher:
 - a. giving small tug on pants, plus spo
 - spoken direction only



15%

d's hands on trousers and helping him pull them off, direction trousers, plus spoken direction tion only at both knees. Removes them with teacher: trousers plus spoken direction tion only Takes pants off standing, trousers all the way up. ousers plus spoken direction tion only tic-banded boxer shorts or jeans. Pull pants up to child should pull them the rest of the way on, with teacher: pants a small tug upward, plus spoken direction ction only pulled up to knees. He pulls them the rest of the way pants a small tug upward, plus spoken direction ction only nts, but pulled up to ankles only. Child pulls them

way on, with teacher:

ction only

l tug on pants, plus spoken direction

ic-banded boxer shorts. Child should be seated, with

off; over one foot only. He removes pants, with teacher:

DRESSING: TROUSERS (Cont'd.)

- IV. Child should be seated. One leg in par Child puts free foot in pants leg and particular instructions are:
 - a. touching free foot and pointing to direction
 - b. spoken direction only
 - V. Child seated. Hand him his pants, wit feet in and pulls them up, with teache
 - a. touching the feet and pointing to
 - b. spoken direction only
- VI. Child seated. Pants handed to him fol them on:
 - a. with teacher pointing to the top of
 - b. spoken direction only

UNDRESSING: SOCKS

- I. Start with sock on toe. Child removes
 - a. placing child's hands on sock and
 - b. spoken direction only
- II. Sock halfway on foot. Child removes i
 - a. pointing to sock plus spoken direc
 - b. spoken direction only
- III. Sock completely on one foot. Child re
 - a. pointing to sock, plus spoken dire
 - spoken direction only
 - V. Both socks on feet. Child removes the
 - a. pointing to socks, plus spoken di
 - spoken direction only



```
ld should be seated. One leg in pants only. Other foot free.
ld puts free foot in pants leg and pulls the pants up. Teacher's
tructions are:
touching free foot and pointing to the pants leg, plus spoken.
direction
spoken direction only
1d seated. Hand him his pants, with the top opened. He puts both
t in and pulls them up, with teacher:
touching the feet and pointing to the pants legs, plus spoken direction
spoken direction only
1d seated. Pants handed to him folded, and he locates the top and puts
m on:
with teacher pointing to the top of the trousers, plus spoken direction
spoken direction only
S
rt with sock on toe. Child removes sock with teacher:
placing child's hands on sock and removing it, plus spoken direction
spoken direction only
k halfway on foot.
                   Child removes it, with teacher:
pointing to sock plus spoken direction
spoken direction only
k completely on one foot. Child removes it, with teacher:
pointing to sock, plus spoken direction
spoken direction only
```

h socks or feet. Child removes them, with teacher:

pointing to socks, plus spoken direction

spoken direction only

RS (Cont'd.)

SOCKS DRESSING:

- Start with sock on except that it ne Child pulls it up, with teacher:
 - placing child's hands on the so direction
 - pointing to sock, plus spoken di
 - c. spoken direction only
- Sock halfway on. Child pulls it the II.
 - a. pointing to the sock, plus spoke b. spoken direction only
- Sock hanging on toes only. Child pu III.
 - pointing to the sock, plus spoke
 - b. spoken direction only
 - Hand sock to child, with the top ope

 - a. helping him to put it over the b. pointing to the top of the sock
 - spoken direction only



h sock on except that it needs to be pulled up on the ankle. Is it up, with teacher:

ng child's hands on the sock and pulling it up, plus spoken tion

ing to sock, plus spoken direction n direction only

way on. Child pulls it the rest of the way up, with the teacher:

ing to the sock, plus spoken direction n direction only

ing on toes only. Child pulls it on, with teacher:

ing to the sock, plus spoken direction n direction only

to child, with the top opened. He puts it on with the teacher:

ng him to put it over the toes, plus spoken direction ing to the top of the sock, plus spoken direction n direction only



SELF-HELP SKILL

NOSE BLOWIN

To expel air from the OBJECTIVE: nasal passage.

PRE

2.

INSTRUCTIONAL METHODS

- 1. Awareness of problem:
 - Take child to mirror.
 - Sneeze while looking into mirror.
 - Demonstrate (dramatically) displeasure at own appearance.
 - Blow nose with large handkerchief.
 - Give help to child, saying, "You need to blow your nose too.
 - Awareness of facial parts:
 - Show child large animal pictures of toy animals and discuss face parts.
 - Take child's hand and touch teacher's nose, chin, and mouth while discussing these parts.
 - Take child's hand and touch his nose, chin, and mouth while naming them at the same time.
 - Put masking tape on nose of teacher and child. Teacher removes tape from her nose and ask child to remove his.
 - 3. Awareness of sensation:
 - Stand and model behavior of inhaling through the mouth and exhaling through the nose. Put child's hand on teacher's chin to experience motion of chin going up and down as mouth opens and closes and to feel the air coming from the nose.

SELF-HELP SKILLS

B. NOSE BLOWING

l air from the bassage.

PREREQUISITE(S):

Awareness of self and others. Some ability to attend. Existence of problem.

TIONAL METHODS

roblem:

to mirror. le looking into mirror. e (dramatically) dist own appearance. with large handkerchief.

to child, saying, "You ow your nose too.

acial parts: l large animal pictures of Is and discuss face parts. i's hand and touch teacher's n, and mouth while discussing ts.

d's hand and touch his nose, mouth while naming them at time.

ng tape on nose of teacher Teacher removes tape from and ask child to remove his.

sensation:

model behavior of inhaling the mouth and exhaling through Put child's hand on teacher's experience motion of chin going own as mouth opens and closes eel the air coming from the nose.

LEARNING ACTIVITIES

Awareness of problem:

a. Child looks at self in mirror.

- Child looks at adult in mirror.
- Same as b.

d. Same as b.

- Child puts handkerchief to nose. He then receives reinforcement. e.
- 2. Awareness of facial parts.
 - Child looks. a.
 - Child feels teacher's nose, chin, b. mouth.
 - c. Child feels own nose, chin, mouth.
 - Child pulls tape and is rewarded d. by praise.

Awareness of sensation:

a. Child watches; child feels motion and air.

and the state of t

INSTRUCTIONAL METHODS

3.

- 3. Awareness of sensation: (Cont'd.) b. Teacher helps child to hold hand
 - b. Teacher helps child to hold hand against his own chin and experience the above sensations.
 - c. "Now put your hand on your chin and see if you can feel the air."
- 4. Kleenex on card held in mouth.
 - a. Teacher holds 3x5 card in mouth (between teeth), places a small piece of rolled Kleenex on card and blows it off.
 - b. Teacher encourages the child to imitate the activity.
 - c. Teacher provides a reinforcement.
- 5. Blow Kleenex
 - a. Teacher holds a Kleenex in front of own face and blows to make the Kleenex flutter.
 - b. Teacher encourages the child to imitate this activity.
 - c. Teacher provides the reinforcement.

LEARNING ACTIVITIES

'd.) old hand experience

S

3. b. Child feels own chin.

ur chin the air." c. Child puts hand on own chin, feels air and is rewarded.

h. n mouth a small on card a. Child watches.

4.

child to

b. Child imitates activity.

forcement.

c. Child receives reward.

k in front of make the Kleenex a. Child watches.

child to imitate

b. Child imitates activity.

einforcement.

c. Child receives reward.

FEATHER GAME

l.

Activities to stimulate and encourage blowing through

INSTRUCTIONAL METHODS

,	Feather Activity	l.	
1.	a. Teacher holds feather under her		a.
	own nose and blows. b. Teacher holds feather under the child's nose.	•	b.
	child's hose. c. Teacher provides a reinforcement (food, praise, enjoyment of activity, etc.) for successive approximations.		c.
2.	Ping-Pong Ball in Pie Plate a. Teacher holds the pie plate under her own nose and blows the ping-	2.	a.
	pong ball around the pie plate. b. Teacher encourages child to imitate		b.
	<pre>the activity. c. Teacher provides reinforcement as in l.c.</pre>		c.
3.	Mirror	3.	
J.	a. Teacher holds mirror to own nose and blows to make steam on mirror.		a.
	b. Teacher encourages child to imitate activity.	!	b.
	c. Teacher provides reinforcement as		c.



in l.c.

FEATHER GAME

3.

ulate and encourage blowing through the nose.

TIONAL METHODS

LEARNING ACTIVITIES

ty
lds feather under her
nd blows.
lds feather under the
se.
ovides a reinforcement
ise, enjoyment of
etc.) for successive
ions.

- a. Child watches feather moving.
 - b. Child attempts to blow feather.
 - c. Child continues appropriate behavior.
- in Pie Plate

 lds the pie plate under

 se and blows the pingaround the pie plate.

 courages child to imitate

 ty.

 covides reinforcement as
- a. Child watches.
 - b. Child imitates activity.
 - c. Child continues appropriate behavior.
- olds mirror to own nose to make steam on mirror. ncourages child to imitate

rovides reinforcement as

- a. Child watches steam.
- b. Child imitates activity.
- c. Child continues appropriate behavior.



"Oh, look, you have to blow your nose too!"

3.



"Blow into my hand."

164





"Here is the bear's nose."

4.

ow your nose too!"



"Do you feel the air coming from my nose?" 165



"Blow the feather with your nose."

7.



"Can you blow the ping-pong ball around the pan?"



eather with your nose."



blow the ping-pong ball he pan?"



"Blow steam on the mirror."

8.



"Can you blow the Kleenex?"



"Can you make the Kleenex flutter?"

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NOSE BLOW!

NARRATIVE

General Program Ov

This is a program to stimulate an awareness f 1. one's nose in order to be more socially accept

Materials: Mirror... Masking tape... Kleenex Large animal pictures with obvious Pie plate... Index card... Cupcak

Time Requirement: dependent upon child's int

Purchase price: Materials are readily availa

- No special training is required; written inst 2. and/or sibling could engage in these activiti
- 3. This program was developed in response to an of Development Centers and State Hospitals es population could benefit by training in this
- 4. As a cooperative, innovative effort to offer problem. Therefore, no adaptive information
- This program is applicable to all children, w 5. whose physical limitations prevent blowing ai tioning techniques can be effectively applied basis or with a small group.

Types of reinforcement for accomplishment mig

- Primary candy, etc.
 Secondary social approval from attendin
- Self-satisfaction through personal comfor



These are responses to the questions listed on background.

B. NOSE BLOWING

NARRATIVE 1

General Program Overview

ram to stimulate an awareness for the need for an ability to blow order to be more socially acceptable.

rror... Masking tape... Kleenex... Flour with pie-tin... Flower... arge animal pictures with obvious noses... feather... Ping-pong ball... le plate... Index card... Cupcake with birthday candle...

ent: dependent upon child's interest span.

e: Materials are readily available household items.

ining is required; written instructions would be helpful. Parents could engage in these activities.

vas developed in response to an educational need; representatives to centers and State Hospitals estimated that one-third of the pupiled benefit by training in this area.

ive, innovative effort to offer suggested programs for solving this refore, no adaptive information has been available.

is applicable to all children, with the possible exception of those limitations prevent blowing air through the nose. Operant condiciques can be effectively applied. Training should be on a one-to-one a small group.

forcement for accomplishment might be: candy, etc.

- social approval from attending adult.

sfaction through personal comfort.

onses to the questions listed on pages 2 and 3, plus additional



- This program is yet to be evaluated. An init charting indicates the potential for success.
- 7. Selection of this problem serves to illustrate which there are no known adaptable programs, between the cracks of existing programs, and practical solutions need to be developed.
- 8. There is a frustrating problem which exists a children. That is the child who cannot blow

Out of our group representing approximately 2 900 needed training in clearing of the nasal

Our objective was to select from the intricat only one segment that we felt was critical, it and present them to the child through modeling and physical contact as the social reinforcer approximation of the steps of the task.

The subject chosen to demonstrate the program retarded child with no speech. He was able happy pleasant child, he was attentive and contains the subject of the subject of

- 9. There are many aspects in the process of blowness of a problem to the appropriate use of the many aspects of this total process we have that of blowing mucous from the nasal passage mouth is one of the initial steps.
- 10. In order for the child to blow his nose, he mouth and exhale through his nose. This step the sensation of air passing in the mouth and hold your hand over the child's mouth in order nose thereby enabling him to experience the



t to be evaluated. An initial observation through frequency the potential for success.

problem serves to illustrate the wide range of problems for known adaptable programs, i.e., those problems which fall of existing programs, and for which creative and imaginative as need to be developed.

ting problem which exists among those who work with retarded the child who cannot blow his nose.

epresenting approximately 2700 children, it was estimated that g in clearing of the nasal passage.

to select from the intricate process of blowing one's nose hat we felt was critical, break it down into sequential steps to the child through modeling and imitation. We chose praise ct as the social reinforcement to be used on each successive he steps of the task.

to demonstrate the program was a ten-year old mentally h no speech. He was able to imitate single sounds. A ld, he was attentive and cooperative.

ects in the process of blowing one's nose from the child's awareto the appropriate use of the handkerchief or Kleenex. Out of f this total process we have chosen to expand the most critical, cous from the nasal passage. Focusing attention on the nose and e initial steps.

hild to blow his nose, he must learn to inhale deeply through his hrough his nose. This step is designed to create an awareness of ir passing in the mouth and out the nose. It may be necessary to ir the child's mouth in order to force him to exhale through his ing him to experience the sensation.



NARRATIVE (Cont'd.)

11. We chose but a few of a wide variety of activities to child's ability to blow air through the nasal passage of these activities was unimportant. A wide variety sented in order to determine those which appeal the m blowing of the nose has been satisfactorily accomplis can be used to deepen the pattern. It should be emph only a small but critical part of the total process o blow his nose appropriately into a handkerchief.

of a wide variety of activities to help shape and improve the blow air through the nasal passage. The order of presentation was unimportant. A wide variety of activities should be predetermine those which appeal the most to the child. Once has been satisfactorily accomplished, these same activities en the pattern. It should be emphasized again that this is itical part of the total process of teaching a child how to priately into a handkerchief.



SELF-HELP SKILLS: 1

INSTRUCTIONAL I

1. Describe how this unit will be useful in de

This unit will be useful in describing meth mucous. If the child can learn to clear hi to realizing and learning the goals and rev habits.

2. Describe how this unit will be useful in st

The purpose is to develop functional awarer can result with an accomplished task. It is the media of games. Personal attention possess of air going outward through the nose of appropriate placement of mucous as a was

- 3. Describe how this unit will contribute to m

 By personal one-to-one example and use of t
- 4. <u>Is this unit's theoretical orientation direction</u>
 This unit's theoretical orientation is direction
 - a. Example: blowing the nose
 - b. Basic behavior should be changed
 - c. Social acceptance
- 5. <u>Is the unit's theoretical orientation (1) b</u>
 (3) eclectic? Explain.

Because the child will respond to a command orientation would be termed behavioristic.



SELF-HELP SKILLS: NOSE BLOWING

INSTRUCTIONAL LEVELS

is unit will be useful in dealing with behavioral change.

be useful in describing methods to help a child clear his nose of child can learn to clear his nose, he will be another step nearer d learning the goals and rewards of self-grooming and better health

is unit will be useful in stimulating action and arousal.

to develop functional awareness of his nose. Pride and satisfaction an accomplished task. It offers pleasurable experiences through mes. Personal attention positively reinforces. It develops awareng outward through the nose and nasal passage. It develops awareness placement of mucous as a waste product.

is unit will contribute to modeling and imitation.

-to-one example and use of the mirror.

theoretical orientation direct or indirect? Explain.

oretical orientation is direct, with resultant indirect overlays:

lowing the nose ior should be changed ptance

heoretical orientation (1) behavioristic, (2) cognitive, or Explain.

Id will respond to a command of "Blow," this unit's theoretical ald be termed behavioristic.



INSTRUCTIONAL LEVELS (Cont'd.)

6. Describe how the unit provides for the trans

This unit provides for the transfer of train blow his nose on command, he may then expand Kleenex when his nasal passage needs clearing after the child learns to blow his nose, he the Kleenex.

7. Describe how this unit relates to other tra

Other training areas include:

- a. Speech
- Hearing b.
- C.
- Feeding and eating Control of drooling d.
- Grooming e.
- Health habits
- Describe how this unit might be affected by 8. or personality.

Since the modality is based on a one-to-one teaching technique and/or personality is cr



LEVELS (Cont'd.)

now the unit provides for the transfer of training.

provides for the transfer of training because when the child is able to lose on command, he may then expand to the task of going and getting a hen his nasal passage needs clearing. Negative transfer may occur if child learns to blow his nose, he doesn't acquire the skill of using ex.

low this unit relates to other training areas.

ning areas include:

g and eating of drooling ng habits

ow this unit might be affected by the instructor's teaching technique lity.

modality is based on a one-to-one modeling situation, the instructor's echnique and/or personality is critical to the success of this unit.



Materials

Feather Pie Plate

Masking Tape Tea Kettle

Mirror Tissues

Ping-Pong Ball Toy Animals

COMMENTS: Nose Blowing

This program is a gem. It demonstrates what pe significant problem and experience in working with reta of a collaborative effort. As indicated by the accompathe practical demonstration with a retarded child was h

Clearly, this program stresses Modeling and Imi ing. Correct responses are followed immediately with sapplication of operant conditioning principles. The inspecific and the program approaches it directly. Even other learning never occurs, the practical results just

The subtleties of the program from the standpoint relate to the various ways in which the concept of awar gories of "awareness of facial parts and awareness of teristically cognitive orientation. The use of masking methods used by Kephart (1969) in body awareness training

Although awareness of facial parts may seem a natraining, it should be pointed out that this constitute process whereby this particular learning takes place. The child that he "needs" to blow his nose. Does he really chin, and mouth in order to learn nose blowing? Does if the order to the order to the sequestions must await a practical evaluation.

The question of awareness is seen at a more base "awareness of sensation." Here the child, through a companion of the consequence which instruction are sponse incompatible with Discrimination of the correct direction of the respirate having the child feel the stream of expelled air. In a feather, ping-pong ball, mirror (steam) and Kleenex proconsequences of nasal exhalation that effectively reinforces.



COMMENTS: Nose Blowing

is a gem. It demonstrates what people with an awareness of a and experience in working with retarded children can evolve out effort. As indicated by the accompanying sequence of photographs, tration with a retarded child was highly successful.

s program stresses <u>Modeling and Imitation</u> as a modality for teaches are followed immediately with social reinforcement, a correct int conditioning principles. The instructional objective is highly gram approaches it directly. Even if transfer of training to occurs, the practical results justify the training effort.

es of the program from the standpoints of both theory and practice is ways in which the concept of awareness has been used. The cates of facial parts and awareness of the problem" reflect a characture orientation. The use of masking tape relates closely to similar hart (1969) in body awareness training.

reness of facial parts may seem a natural prerequisite to such be pointed out that this constitutes an assumption regarding the particular learning takes place. So also does instructing the "" to blow his nose. Does he really need to touch and name nose, order to learn nose blowing? Does it even facilitate such learning? By that may, nonetheless, provide some indirect kind of payoff? Estions must await a practical evaluation of these procedures.

of awareness is seen at a more basic level in the section on tion." Here the child, through a combination of physical prompts through a motor sequence which insures nasal exhalation and lation, a response incompatible with successful nose blowing. The correct direction of the respiratory response is cued by all the stream of expelled air. In addition, the use of the ball, mirror (steam) and Kleenex provide novel and entertaining all exhalation that effectively reinforce the act.



Yet, even at this level an assumption is awareness as a prerequisite to learning. That a suggested in step #3 of the narrative. Thus, "I over the child's mouth in order to force him to enabling him to experience the sensation." This involves an involuntary elicitation of the correforms involuntarily, he does emit the correct reforced. This procedure, which is closely relate employs the timely application of positive reinfuntary response into a voluntary one. And in the response, the child can be made aware of the cue of escaping air. Thus, is prior training in aware of success?

An even more direct and simple method mitobacco) into the external nasal cavities to indexpels the air through the nasal cavities in the ively induced response can then be reinforced impeated elicitations, it could be converted into

Because it involves the use of tobacco, unacceptable. But it does suggest whay may be a such training. On the other hand, what the original terms of additional terms and additional terms of the various direct and indicate that indicate that identification of the various direct and identification of the various direct and indicate that identification of the various direct and identificati



this level an assumption is involved regarding the development of requisite to learning. That another alternative may be available is 3 of the narrative. Thus, "It may be necessary to hold your hand buth in order to force him to exhale through his nose, thereby perience the sensation." This technique, unlike the preceding ones, thary elicitation of the correct response. Although the child perty, he does emit the correct response which can subsequently be reintedure, which is closely related to escape-avoidance conditioning, application of positive reinforcement, thereby converting an involto a voluntary one. And in the course of performing the involuntary is can be made aware of the cue of exhalation by feeling the stream thus, is prior training in awareness of this cue truly a prerequisite

re direct and simple method might be to insert snuff (powdered external nasal cavities to induce sneezing. The sneeze reflexively bugh the nasal cavities in the fashion of nose blowing. This reflexnonse can then be reinforced immediately. In this manner, with response, it could be converted into a voluntary response.

involves the use of tobacco, the "snuff" method would probably be it does suggest whay may be a rapid and efficient "short-cut" to the other hand, what the original program may lack in efficiency, ake up for in terms of additional benefits. For example, even if a findings indicate that identifying nose, mouth, etc., proves to a vis learning nose blowing, such training can be justified on rhaps the nose blowing program is an ideal setting for carrying a identification of facial parts. If time and efficiency are not s, such incidental benefits may more than justify a more extensive opriate direction to take could only be determined through a cost-of the various direct and indirect benefits accruing from the s of action.

Thomas S. Ball



UNIT 5

IMITATION1



¹ From: A Tentative Guide for the Instruction a Retarded and Multi-Handicapped Children, Santa

UNIT 5

IMITATION1

tive Guide for the Instruction and Training of the Profoundly alti-Handicapped Children, Santa Cruz, California, August 1969.

TERIC Provided by ERIC

IMITATION

Sometimes training is greatly facilitated to imitation. For example, we can think of training at the use of various physical cues, such as pinching forefinger. On successive trials, we can gradually that the child himself would assume the correct postion of the sound. The foregoing describes shaping

Imitation is often much more efficient than readily imitated the way the teacher shaped her own could forego the necessary steps required to physical

Some children have to be taught to imitate simple and obvious imitation of gross physical move table, and then immediately rewarding the child who taught him to imitate increasingly complicated segment of the more complicated problem of speech in gross motor imitation, we have established a generation then apply to training for the production of speech the specifics for such a program. What is referred the child's progress in the development of imitation

In the training sessions, three children we At first, the teacher did nothing more than a bit of snack for herself from a bowl. The another teacher to do as the model teacher a bit of snack in their own cups.

Then the second teacher took charge of the food only when the child imitated the part ior that was the subject of training. In given a snack whenever he imitated the mode behavior--raising the arms, leaning to one training passed to more detailed motor imit



IMITATION

training is greatly facilitated through the development of generalized example, we can think of training a child to make the "m" sound through is physical cues, such as pinching his lips together with our thumb and successive trials, we can gradually "fade out" this physical prompt so make the correct positioning of his lips for the product.

The foregoing describes shaping of a speech sound.

n is often much more efficient than shaping. For example, if the child the way the teacher shaped her own lips to make the "m" sound, she necessary steps required to physically prompt him.

Idren have to be taught to imitate. We can start out with some very is imitation of gross physical movements, e.g, slapping the top of the immediately rewarding the child when he does likewise. Once we have itate increasingly complicated sequences of physical movements, we can re complicated problem of speech imitation. In other words, through ation, we have established a generalized tendency to imitate which we be training for the production of speech sounds. The following describes a such a program. What is referred to as a "probe" is simply a test of ress in the development of imitation.

raining sessions, three children worked with a model teacher, the teacher did nothing more than sit down on a rug and take snack for herself from a bowl. The children were prompted by teacher to do as the model teacher had done, including taking snack in their own cups.

second teacher took charge of the snack bowl, and she provided y when the child imitated the part of the model teacher's behavwas the subject of training. In early sessions, the child was snack whenever he imitated the model teacher's gross motor—raising the arms, leaning to one side, and the like. Later, passed to more detailed motor imitations and finally to speech.



IMITATION (Cont'd.)

Periodically, the model teacher tested each complex performance. The tests consisted of neously: a gross motor act, a fine motor act verbal statement. For example: Probe I. Arrhands turned back, face frowning, statement: During the test each child was reinforced if gross motor act, whether he imitated the other ance or not.

As it turned out, the children imitated all t increasing accuracy. They imitated best the training at the time, but they did not lose t earlier. So, when speech finally was added to began to imitate it reliably, and they contin tate gross, fine motor, and facial acts. This growing ability to observe and imitate a compuneinforced, which was exactly the result we

Once imitation of sentences is established, the teach ability to respond to questions. The following mater

The ultimate intent of imitation training was ability to listen to novel language performan In one year, it was possible only to develop the children consistently imitated fairly sho the program would have to increase the childr longer verbal performances. Whether that can it is one subject of the current year's reseathe program so far suggests that the extensio to complex statements is probably a practical

Any child may have a much more elaborate verb demonstrates in a spontaneous account of some whether we could bring that repertoire into u it as well, we chose a child who was probably in the group.



y, the model teacher tested each child's ability to imitate a formance. The tests consisted of four act: performed simultagross motor act, a fine motor act, a facial expression, and a ement. For example: Probe I. Arms out to the side, palms of d back, face frowning, statement: "This too shall pass away." test each child was reinforced if he imitated the teacher's act, whether he imitated the other components of her perform-

d out, the children imitated all the teacher's actions with accuracy. They imitated best the act that was the subject of the time, but they did not lose the skills they had learned o, when speech finally was added to the training, the children itate it reliably, and they continued at the same time to imifine motor, and facial acts. This apparently represented a lity to observe and imitate a complex performance, even when d, which was exactly the result we wanted.

entences is established, the teacher proceeds to develop the child's to questions. The following material outlines such a program:

e intent of imitation training was to give the children the listen to novel language performances and to repeat them.

, it was possible only to develop training to the point where n consistently imitated fairly short sentences. To be useful, would have to increase the children's skill with longer and al performances. Whether that can be done remains to be seen; ubject of the current year's research. But the success of so far suggests that the extension of verbal imitative skills statements is probably a practical goal.

ay have a much more elaborate verbal repertoire than he s in a spontaneous account of some happening. To find out could bring that repertoire into use, and perhaps add to we chose a child who was probably the least articulate p.



We began by finding out just how inarticulate he was. The teacher asked, repeatedly over a period of 13 days, five questions such as, "Who do you like to play with?" In answer to these questions, the child usually answered with one word or two yielding a grand average over repeated inquiries of one and one-half words per answer.

Then the teacher began training. She asked, "What did you see on the way to school?" When she prompted the boy's answers with "What else," he simply repeated one and two-word answers, alternating between the two responses, "A doggie" and "TV," and repeating the pair over and over.

When it had become clear that this pattern was not likely to change by itself, the teacher provided a more logical prompt: "What kind of doggie?" The boy replied that it was a German shepherd, and the teacher praised him and gave him a bit of snack. Then she asked again what he saw on the way to school. He answered, "A doggie." At this point, the teacher raised her eyebrows, cocked her head, and waited. Presently the child amended his answer: "A German shepherd doggie," and was praised and fed.

When the original question was asked again, with the reply, "A German shepherd doggie," the child was given a second prompt; the teacher asked what the doggie was doing. In this way the training proceeded, with the teacher prompting each logical step, waiting for all previous steps to be chained together in reasonable sequence, and reinforcing only increasingly long and meaningfully connected sequences. The child's average answer to this first question eventually rose to about 200 words per ten-minute session, which amounted to about 50 words per session if duplications were eliminated.

Then the teacher asked a new question, "What do you do when you go home from school?" The child's answer showed that he had profited from the training on the first question; therefore the teacher reduced her logical prompts and asked simply, "what else" or "what then," while continuing to dispense prasie and snacks only for more and more elaborate phrases.



IMITATION









UNIT 6

BEHAVIOR PROBLEMS

A.	Extinguishing Self- Destructive Behavior	P. 8	86
в.	Aggressive Behavior	P. 9	9 4
c.	Blindism	P. 9	99



BEHAVIOR PROBLEMS

PREREQ

1.

2.

3.

A. EXTINGUISHING SELF-DESTRUCT

OBJECTIVE: To reduce self-destructive behavior by a combination of techniques; nonreinforcement of problem behavior and positive reinforcement of appro-

priate behavior.

INSTRUCTIONAL METHODS

- Observe child over a period of time long enough to obtain a stable base line indicating frequency of selected problem behavior.
- 2. Have available a means of controlling the time intervals between reinforcements (i.e., a universal timer).
- 3. If the child exhibits the problem behavior, the teacher turns attention away from the child and returns the attention immediately when appropriate behavior begins (behavior incompatible with problem behavior).
- 4. When the problem behavior ceases, the teacher reinforces the appropriate behavior with a primary reinforcer and timing begins.
- 5. Gradually extend interval of time between 5. the primary reinforcements (e.g. reinforce at 1st second, 3rd second, 5th second, etc.).

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BEHAVIOR PROBLEMS

EXTINGUISHING SELF-DESTRUCTIVE BEHAVIOR

te self-destructive by a combination of les; nonreinforcement em behavior and posinforcement of approbehavior.

- PREREQUISITE(S): 1) Must be able to visually attend.
 - 2) Must have voluntary control of upper extremities.

TIONAL METHODS

er a period of time long h a stable base line ency of selected problem

LEARNING ACTIVITIES

- 1. Not applicable.
- means of controlling the etween reinforcements sal timer).
- hibits the problem acher turns attention hild and returns the lately when appropriate (behavior incompatible havior).
- behavior ceases, the tes the appropriate primary reinforcer and

d interval of time between

forcements (e.g. reinforce

3rd second, 5th second, etc.).

- 2. Not applicable.
 - 3. The child will learn that the selfdestructive behavior will not be rewarded.
- 4. When appropriate behavior is exhibited, the child is rewarded.
- 5. The child will associate the action with the problem behavior situation.



EXTINGUISHING SELF-DESTRUCTIVE BEHAVIOR (Cont'd.)

INSTRUCTIONAL METHODS

- 6. When the child resumes the problem behavior, the teacher immediately turns away to avoid reinforcing the crisis (problem) behavior with her attention.
- 7. When problem behavior ceases, teacher immediately returns her attention to child but demands a longer period of nonoccurrence before beginning the primary reinforcement (i.e., 3 or 4 sec.). The reinforcement continues at lengthening intervals as nonoccurrence of problem behavior persists.
- 8. For evaluation purposes it is helpful if throughout the proceedings a record can be kept of the gradually extended intervals of nonoccurrence of the crisis behavior until the objective is achieved.
- 9. The goal is to have the teacher gradually fade herself out, thus eliminating the primary and the social reinforcement, so that the control of the crisis behavior is not dependent on the teacher's physical presence.
- 10. When the problem behavior is extinguished by this technique, other aspects of the teaching program can be approached.

pe

Th

8.

9.

10. No



UCTIVE BEHAVIOR (Cont'd.)

NAL METHODS

es the problem behavior, ely turns away to avoid is (problem) behavior

r ceases, teacher
her attention to
longer period of
beginning the prii.e., 3 or 4 sec.).
ntinues at lengthening
rrence of problem

ses it is helpful if edings a record can ally extended intervals the crisis behavior is achieved.

the teacher gradually nus eliminating the lal reinforcement, so the crisis behavior the teacher's physical

navior is extinguished other aspects of the name of th

LEARNING ACTIVITIES

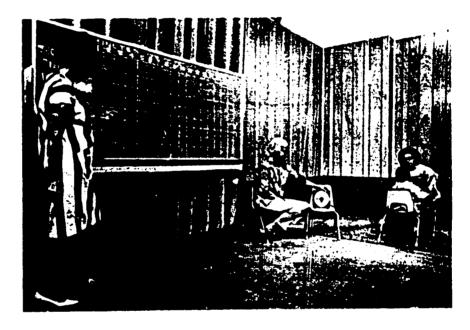
7. -----

6.

8. -----

 The child is not motivated to perform problem behavior.

10. Now a variety of learning activities can be carried out.



Observe the child over a period of time, to obtain a stable base. (Note Universal timer.)

3.

Child sitting quietly with hands still -immediate behavior objective achieved.



Teacher returns her attention to child but demands a longer period of nonoccurrence before beginning the primary reinforcement. 197

Teacher turn child, retur when the app Extinction t



Have availab the time int ments.



riod of time, Note Universal



on to child of non-

2.



Teacher turns her attention away from the child, returning the attention immediately when the appropriate behavior begins. Extinction technique.



Have available a means of controlling the time intervals between reinforcements.

NARRATIVE

Jill is a 5-year, 4-month old child who spends head with her hands. Her mother is attempting to elim mealtime by withholding her food until her hands are h is also working with Jill on feeding herself with a spherself.

Our objective, then, was to get Jill to sit for her head with her hands. We hoped to accomplish this combined with positive reinforcement for nonoccurrence while the head-hitting occurred, the teacher turned aw until the incompatible behavior (nonhead-hitting) began food reward starting with a one second interval, gradu of time before giving the reinforcements.

A Universal timer was used in giving us control forcement. One person operated the clock and cued the primary reinforcement.

During the procedure a chart-record was kept of minute when Jill was not hitting her head. A line draw corresponding with the chart markings showed a definition not hit her head by the final minute of the procedure.



is a 5-year, 4-month old child who spends most of her time hitting her r hands. Her mother is attempting to eliminate her head-hitting during withholding her food until her hands are held quietly in her lap. She ing with Jill on feeding herself with a spoon-getting her to reinforce

objective, then, was to get Jill to sit for 30 seconds without hitting h her hands. We hoped to accomplish this through an extinction technique h positive reinforcement for nonoccurrence of the head-hitting. When or ad-hitting occurred, the teacher turned away--imposing a time-out period compatible behavior (nonhead-hitting) began--this was reinforced with a starting with a one second interval, gradually lengthening the intervals re giving the reinforcements.

iversal timer was used in giving us control over the timing of the rein-One person operated the clock and cued the teacher when to give the forcement.

ng the procedure a chart-record was kept of the number of seconds per Jill was not hitting her head. A line drawn across the chart and g with the chart markings showed a definite rise in the time Jill did head by the final minute of the procedure.

ERIC 199

EXTINGUISHING SELF-DESTRUCTIVE BEH

INSTRUCTIONAL LEVELS

- Describe how this unit will be useful in dealing with
 - Immediate steps are necessary to reduce this type a. the child on the road to developmental tasks.
 - Basically the modification of behavior is essential b. and attention to the surrounding environment.
 - To be self-controlled and socially acceptable.
 - d.
 - To begin steps toward regularity in daily persona To accept gradual steps of responsibility in the neighborhood.
 - To establish rapport, communication, and useful p and motor skills.
- Describe how this unit will be useful in stimulating 2.
 - Pursuit of "Means" to learn steps involving, -
 - -- Rapport, happiness, and success within group o -- Opportunities to receive inputs through sensor
 - seeing, hearing, touch, etc.
 - -- Conceptualizing intake,
 - -- Responding through singing, talking, verbalizi
 - Initial areas of orientation, contact, attention, interest involvement and reinforcement.
- Describe how this unit will contribute to modeling an 3.

This may be considered as a practice in self-destruct degree of boredom within the environment. - Areas o in an incidental fashion may be limited. - Establis expand the use of patterns in modeling and imitation.

Is this unit's theoretical orientation direct or indi 4.

This theory is based on direct behavior modification Management and Skinnerian Operant Conditioning.



EXTINGUISHING SELF-DESTRUCTIVE BEHAVIOR

INSTRUCTIONAL LEVELS

his unit will be useful in dealing with behavioral change.

steps are necessary to reduce this type of crisis behavior and get on the road to developmental tasks.

the modification of behavior is essential to establish orientation ion to the surrounding environment.

-controlled and socially acceptable.

teps toward regularity in daily personal life.

gradual steps of responsibility in the home, in school and in the

sh rapport, communication, and useful progress toward self-help skills.

his unit will be useful in stimulating action and arousal.

"Means" to learn steps involving, -

, happiness, and success within group or environment,

hities to receive inputs through sensory modalities, i.e.,

hearing, touch, etc.

ualizing intake,

ing through singing, talking, verbalizing,

eas of orientation, contact, attention, sensory-motor integration, hvolvement and reinforcement.

his unit will contribute to modeling and imitation.

hsidered as a practice in self-destruction that indicates a basic dom within the environment. - Areas of modeling and imitation al fashion may be limited. - Establishment of self-control will of patterns in modeling and imitation.

theoretical orientation direct or indirect?

based on direct behavior modification established by Crisis SERIC erian Operant Conditioning.

INSTRUCTIONAL LEVELS (Cont'd.)

5. Is the unit's theoretical orientation (1) Cognitive (3) Eclectic? Explain.

It is Eclectic because it encompasses both the beha

Behavioral
Ocular control
Inhibition
Imitation
Self-destruction

Cognitive
Perception (recognit
Readiness
Association
Memory

3

- Only if technique is used in a variety of settings securely established.
- 7. Describe how this unit relates to other training as After establishing a modicum of self-control and mode be given precision training in directed practice of the self-control and mode of

Particular and precise training in getting on and Making use of gross areas of arms and legs and han of a personal-need type.

8. Describe how this unit might be affected by the in or personality.

Items that lead to good teaching techniques in behavior in the

- b. Instructor avoids any technique that may reinf behavior.
- c. Checks for variation of base rate of behavior or "changes of environment."
- d. Instructor always uses positive methods of obmeasurement and rewards.



LS (Cont'd.)

theoretical orientation (1) Cognitive, (2) Behavioral, or Explain.

because it encompasses both the behavioral and cognitive areas.

Cognitive
Perception (recognition and discrimination)
Readiness
Association
Memory

.on

he unit provides for the transfer of training.

que is used in a variety of settings may transfer of training be

this unit relates to other training areas.

shing a modicum of self-control and motor inhibition, the child will ision training in directed practice of a motor response nature.

d precise training in getting on and off the bus independently. gross areas of arms and legs and hand—eye manipulative skills—need type.

this unit might be affected by the instructor's teaching technique

ad to good teaching techniques in behavior modification:

a base rate of overt behavior in the child.
r avoids any technique that may reinforce or trigger the problem

r variation of base rate of behavior at various times of the day es of environment."

r always uses positive methods of objectivity, observation, nt and rewards.



COMMENTS: Extinguishing Self

This instructional plan provides a supmodification in action. The descriptive mater procedural details and requires no further clar however, is the bearing of this program on The Factors. The procedure violates time honored both of these factors.

In the social context of the everyday against the implementation of this program. The education suggests that Jill is an "emotionally problem. It assumes that this "inside the head must be the focus of therapeutic effort. In orbadly toward herself, presumably she will no lead-hitting. The present strategy violates a bypasses the so-called internal mental problem forcement practices.

The theoretical question is only part if not more important, is the subjective impac the teacher and other adults. This behavior i away from the child in the process of hitting ! precisely counter to those sympathetic feeling. into teaching in the first place. These are de the unit successfully demonstrated was that in one must overtly express positive feelings seld one must become cold and detached. Rather, it understanding and self-discipline required to for such expression. This problem is compounded order to inaugurate the program, must gain the the parents and other significant people in the aides and other students. She must understand this understanding to others. Fortunately, the procedure provides her with a means for conclus



COMMENTS: Extinguishing Self-Destructive Behavior

tructional plan provides a superb demonstration of behavior action. The descriptive material covers all of the important ls and requires no further clarification. What is left unsaid, bearing of this program on Theoretical Orientation and Subjective ocedure violates time honored and cherished notions regarding ctors.

ocial context of the everyday world, everything would operate ementation of this program. The general folkiore of special ts that Jill is an "emotionally disturbed" child with a "mental" umes that this "inside the head" problem of "negative self-concept" s of therapeutic effort. In other words, if she stops feeling self, presumably she will no longer need to punish herself with he present strategy violates all of these notions in that it called internal mental problem and focuses instead upon reinces.

retical question is only part of the problem, however. rtant, is the subjective impact of self-destructive behavior on other adults. This behavior is bizzare and disturbing. Turning ild in the process of hitting herself is an action that goes r to those sympathetic feelings that motivate many people to go the first place. These are decent, humane impulses. Yet, what fully demonstrated was that in dealing with this kind of problem, express positive feelings selectively. This does not imply that cold and detached. Rather, it means that one must develop the d self-discipline required to discriminate the appropriate moment ion. This problem is compounded by the fact that the teacher, in ate the program, must gain the active support of her supervisor, other significant people in the environment including teaching students. She must understand what she is doing and communicate ng to others. Fortunately, the evaluation system built into the es her with a means for conclusively demonstrating its success.



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COMMENTS (Cont'd.)

Hostile critics cannot long ignore such evidence. They may, however, attack the program on other grounds. For example, they may claim that it works but at the cost of a presumed psychic damage or side effect. The teacher can then counter with the demand for proof that damage of this kind ever occurs.

The preceding discussion points up, once again, an important fact about instructional objectives, i.e., it is one thing to specify an objective and to delineate a successful strategy for achieving it, it is quite another thing to implement it in the real world.

For further discussion on underlying theories of treatment, refer to Section IV.

Thomas S. Ball



80%

BEHAVIOR PROBLEMS

PRE

1.

3.

4.

B. AGGRESSIVE BEHAV

OBJECTIVE: To illustrate to the child that his aggressive behavior deprives him from pleasureful and rewarding classroom activities.

INSTRUCTIONAL METHODS

- 1. The problem behavior is charted until a stable base line is established.
- 2. After establishing the base line, immediately upon demonstration of aggressive behavior, the child is removed by an adult who grasps the clothing at the shoulder, takes him to the seclusion area which is located away from the classroom.
- 3. The child is left in seclusion for a preset time. At the end of the preset time, an adult will see if the behavior is appropriate before returning the child to classroom activity.
- 4. Having displayed appropriate behavior, the child is returned to the classroom by an adult without giving any physical contact to the child so that the problem behavior is not reinforced.
- 5. Seclusion for problem or aggressive behavior needs to be consistently practiced and must be utilized as often as necessary until objective is obtained.
- 6. Objective is achieved, i.e., in comparison with the base line, the rate of the agressive behavior is significantly reduced.



BEHAVIOR PROBLEMS

B. AGGRESSIVE BEHAVIOR

o illustrate to the child hat his aggressive behavior eprives him from pleasureful hd rewarding classroom activities.

PREREQUISITE: Able to hear, follow

direction, control fine

motor skills.

STRUCTIONAL METHODS

em behavior is charted until base line is established.

ablishing the base line, ly upon demonstration of e behavior, the child is y an adult who grasps the at the shoulder, takes him clusion area which is loy from the classroom.

is left in seclusion for time. At the end of the me, an adult will see if ior is appropriate before the child to classroom

splayed appropriate behavior, is returned to the classroom lt without giving any physical o the child so that the problem is not reinforced.

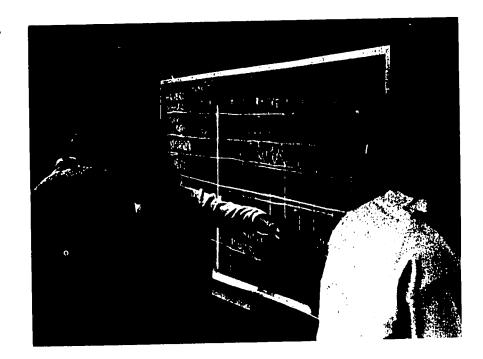
for problem or aggressive needs to be consistently and must be utilized as necessary until objective ed.

LEARNING ACTIVITIES

- 1. Not applicable.
- 2. When a child has a problem behavior,
- 3. The child will learn that problem behavior means seclusion.
- 4. When appropriate behavior is established, the child will be returned to the group.

is achieved, i.e., in comparison ine, the rate of the agresvERIC significantly reduced.

1.



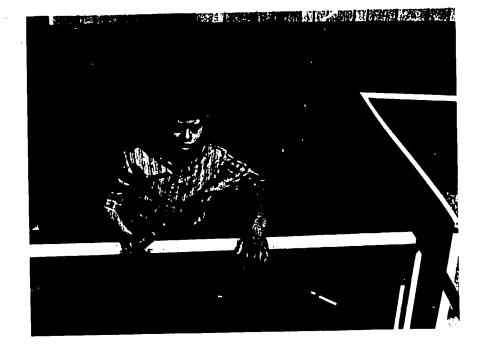
Problem behavior is charted until a stable base line is established.

The cheshould the clear verbal

4.

2.

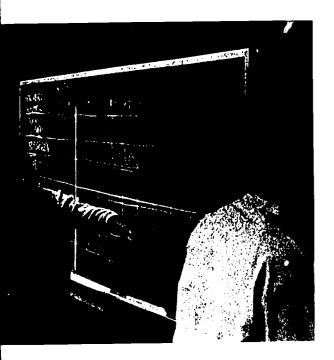
3.



The child is left in seclusion for a preset period of time.

Havin child

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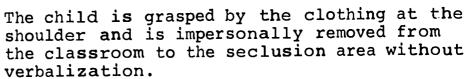


2.

4.

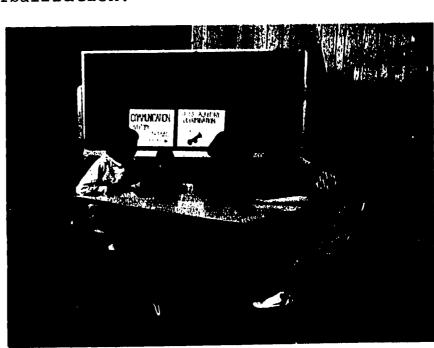


vior is charted until a stable established.





left in seclusion for a preset



Having displayed appropriate behavior, the child is returned to the classroom.

BEHAVIOR PROBLEMS: AGGRESSIVE BEH INSTRUCTIONAL LEVELS

- 1. Describe how this unit will be useful in dealing with Seclusion is a definite action by which aggressive be
- 2. Describe how this unit will be useful in stimulating
 Rather than stimulating action and arousal, seclusion sive behavior, thus allowing the child to become more in appropriate classroom behaviors.
- 3. Describe how this unit will contribute to modeling an Model of increasing nonaggressive behavior is rewardi to participate in the activity which has been denied
- 4. Is this unit's theoretical orientation direct or indi

 It is direct. It is nonverbal and also an interventi
- 5. Is the unit's theoretical oreintation (1) behaviorist (3) eclectic? Explain.

The theoretical orientation is behavioristic. It is with seclusion being a negative reinforcer which incraggressive behavior -- also, the action is observable a

Aggressive behavior is associated with seclusion; the appropriately to avoid a negative reinforcer in other can be obtained if seclusion is used with consistency



BEHAVIOR PROBLEMS: AGGRESSIVE BEHAVIOR

INSTRUCTIONAL LEVELS

unit will be useful in dealing with behavioral change.

finite action by which aggressive behavior is decreased.

unit will be useful in stimulating action and arousal.

lating action and arousal, seclusion is designed to limit aggresus allowing the child to become more open to action and arousal assroom behaviors.

unit will contribute to modeling and imitation.

ng nonaggressive behavior is rewarding as children can continue the activity which has been denied to the secluded child.

eoretical orientation direct or indirect? Explain.

is nonverbal and also an intervention disciplinary technique.

bretical oreintation (1) behavioristic, (2) congnitive, or blain.

rientation is behavioristic. It is based on behavior theory ing a negative reinforcer which increases periods of nonoccurring pr--also, the action is observable and measurable.

unit provides for the transfer of training.

or is associated with seclusion; therefore, the child behaves avoid a negative reinforcer in other settings. This result f seclusion is used with consistency.



INSTRUCTIONAL LEVELS (Cont'd.)

- 7. Describe how this unit relates to other training with the continued use of this seclusion technibehavior so that the teacher can maintain her benefit.
- 8. Describe how this unit might be affected by the or personality.

The teacher needs to be consistent, utilizing uncontrolled personality variables and inapprocause this method to become ineffectual. Some that they feel that this technique is liable tand create negative feelings or aloneness. In that as soon as acceptable behavior is demonst the child is immediately returned to the situation prolonged, indefinite, or unplanned—it must be



ont'd.)

nit relates to other training areas.

use of this seclusion technique, we can extinguish aggrassive e teacher can maintain her total program for the child's

unit might be affected by the instructor's teaching technique

to be consistent, utilizing minimal verbalization, otherwise hality variables and inappropriate techniques are liable to to become ineffectual. Some teachers object to seclusion in this technique is liable to destroy the child's self-image this technique is liable to destroy the child's self-image effection or aloneness. In view of this, it should be stressed effection or aloneness. In view of this, it should be stressed ceptable behavior is demonstrated for a preset period of time, it is considered to the situation. Seclusion should never be interpretable or unplanned—it must be programmed.



COMMENTS: Aggressive

This program was based upon a well estable known as "time out from positive reinforcement." and executed. It was evaluated in an objective factor base line, the rate of aggressive behavior was simple collected, this kind of data is not readily subject of interpretation.

A factor with which the teachers were awas specifically in the program deals with the reinforcement is that, for some individuals, seclusion can rather than as time out from positive reinforcement a serious problem for the teacher since the rate crease in frequency over base line. This information forward indication that if the program is not would be devised.

The authors of the program perceptively itional Levels) that the variable of Subjective Fainstance. They observed, "Some teachers object technique is liable to destroy the child's self-cor loneliness." It is important to note, however unfavorable side effects constitute speculation, to support the notion of side effects. The probitant the student. Yet since it is the teacher whout the program, such problems cannot be ignored that she attaches to the term seclusion, which, connotations, must be thoroughly discussed. Perception overcome by placing the child in a "concentration" extraneous stimuli serving to elicit the behavior the procedure may "sell" much better.

The term seclusion may be reacted to with other hand, there is no doubt that it can be serkey to its correct usage was aptly and succinct! "Seclusion should never be prolonged, indefinite Guided by the data collection procedure as outli will not occur.



COMMENTS: Aggressive Behavior

ram was based upon a well established operant conditioning procedure t from positive reinforcement." The program was carefully conceived was evaluated in an objective fashion, i.e., in comparison with the te of aggressive behavior was significantly reduced. When honestly ind of data is not readily subject to distortion during the process

with which the teachers were aware but which was not brought out he program deals with the reinforcing properties of seclusion. The some individuals, seclusion can function as a rewarding experience me out from positive reinforcement. Yet, this need not constitute for the teacher since the rate measure will readily reveal an incy over base line. This information provides a reliable, straightn that if the program is not working, an alternative strategy should

rs of the program perceptively indicated under point #8 (Instructat the variable of Subjective Factors is of great relevance in this bserved, "Some teachers object to seclusion in that they feel this le to destroy the child's self-image and create negative feelings. It is important to note, however, that these concerns about potential effects constitute speculation, not fact. There is really no evidence tion of side effects. The problem may reside in the teacher rather Yet since it is the teacher who decides whether or not to carry such problems cannot be ignored. The feelings and value judgments to the term seclusion, which, from the outset, has very negative to the term seclusion, which, from the outset, has very negative to the child in a "concentration booth" designed to eliminate li serving to elicit the behavior." With this kind of repackaging, "sell" much better.

seclusion may be reacted to with a negative emotional bias. On the is no doubt that it can be seriously abused as a procedure. The t usage was aptly and succinctly summarized in the statement, never be prolonged, indefinite, or unplanned—it must be programmed." a collection procedure as outlined in this plan, abuses of seclusion



BEHAVIOR PROBLEM

C. BLINDISM

OBJECTIVE: The student will be able to hold her head in an upright position.

INSTRUCTIONAL METHODS

- 1. Observe the student in a home situation to attain a "natural setting" base line for frequency of problem behavior (head held in a slumped position).
- Seek information from the mother concerning types of rewards and whether there are any obstacles to resolving the problem. (Music found to be most rewarding.)
- 3. Set up two timers. One to run continuously for a period of two minutes, the other to measure the amount of time her head attains the upright position within the two-minute period. Have a scoring board to score the results of the timers.
- 4. Bring the student into the training room having a phonograph and records ready. Scorepad and timers are also to be ready.
- 5. Timers started. If the student's head is down, the music remains off. When she begins to bring her head up, the music begins. The music is started with any upward movement. If her head begins to go down, the music stops. No verbalization at this time.

1. Not

PREREQU:

Not

2.

3. Not

....

. Not

5. Whe

mus be

BEHAVIOR PROBLEMS

C. BLINDISM

nt will be able to head in an upright

PREREQUISITE(S):

Must not have any physical obstacle to holding neck

in upright position.

NAL METHODS

nt in a home in a "natural e for frequency or (head held in n).

LEARNING ACTIVITIES

- 1. Not applicable.
- from the mother of rewards and any obstacles to blem. (Music founding.)
- 2. Not applicable.
- . One to run
 a period of two
 r to measure the
 r head attains the
 within the two-minute
 coring board to score
 e timers.
- 3. Not applicable.

- into the training nograph and records and timers are also
- 4. Not applicable.
- If the student's music remains off. o bring her head up,
 The music is started ovement. If her head, the music stops.
- 5. When the student lifts her head, the music will start and the child will be rewarded.

INSTRUCTIONAL METHODS

- 6. Amount of time the head is held up will be scored on chart. Five 2-minute sequences will be scored.
- 7. At this time begin to associate physical contact with music by rubbing the shoulder or holding a hand when the music starts (social approval). Association of physical contact is made in view of eventually withdrawing the primary (music) reward. Five 2-minute sequences are scored.
- 8. In another five 2-minute sequences (scored), the music is deleted and social praise (verbal and stroking) is associated with physical contact if the student keeps head in an upright position.
- * 9. Delete all physical contact and use just social reward of conversation commenting that it is nicer to keep head up. Five 2-minute sequences are scored.

* At this time this step was deleted and we returned to step 7 as it was obvious that the student was not responding as readily without the music.





TRUCTIONAL METHODS

me the head is held up ed on chart. Five 2nces will be scored.

begin to associate tact with music by rubbing or holding a hand when the (social approval). Associate the hysical contact is made in tually withdrawing the ic) reward. Five 2-minute the scored.

ive 2-minute sequences

ne music is deleted and

ne (verbal and stroking)

nd with physical contact

nt keeps head in an upright

hysical contact and use reward of conversation hat it is nicer to keep be 2-minute sequences

is step was deleted and step 7 as it was obvious t was not responding as the music.

LEARNING ACTIVITIES

- 6. The student will begin to associate reward of music playing with having head in an upright position.
- 7. The student will begin to associate physical contact and music with the head being in an upright position.
- 8. The student will be associating social praise with physical contact as the reward to keeping her head in an upright position.
- 9. The student should associate meaningful communication as an incentive to keeping her head in an upright position.
- The scoring tabulation revealed that the student may not have had complete association of the reward to the fact of having her head in an upright position, but it was observable that the music and music-physical contact stages had more time periods of association. Had this been brought out over a longer period of time, the association and behavior change would have been much more effective.

 See concluding interpretation of the results under Comments.

1.



2.

4.

Timers started. Any upward movement, the music starts. If head begins to go down, music stops. No verbalization at this time.

3.



The child has her head in upright position and is receiving physical contact as means of a reward which has been associated with the primary reward of music.

ERIC*

upward movement, the ad begins to go down, balization at this time.

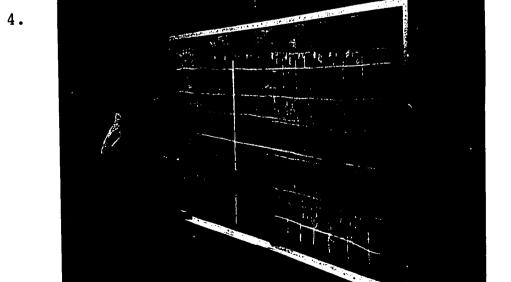


ad in upright position rsical contact as means as been associated with PfERICic.

2.



When head is down, music remains off.



Measure the amount of time her head attains upright position within the 2-minute period and record on chart.

NARRATIVE

Jenny is a 17-year old blind/cerebral palsied Jenny sits in a slumped, withdrawn position with her lathough she exhibits other blindisms—rocking, rubbit the mother feels that Jenny's keeping her head down reposition is crisis behavior as it interferes with her youngster. The head-down position also limits her mospacial relationships, availability of environmental in educational experiences.

In successive approximations, Jenny is reward in an elevated position. Using two Universal timers, measured at 2-minute intervals are conducted as: Stage II - music associated with physical contact, Stassociated with social praise, and Stage IV - social

During the procedure a chart was kept of the 2-minute period that Jenny elevated her head. The si is explained in the Comments that follow this unit.



-year old blind/cerebral palsied girl. As can be observed, ed, withdrawn position with her head down on her chest. other blindisms--rocking, rubbing her eye with her fist--Jenny's keeping her head down rather than in an elevated havior as it interferes with her relationship to the down position also limits her mobility, development of availability of environmental stimuli, and participation ences.

approximations, Jenny is rewarded for having her head up on. Using two Universal timers, four 10-minute stages intervals are conducted as: Stage I - music reinforcement, ciated with physical contact, Stage III - physical contact praise, and Stage IV - social reinforcements only.

pcedure a chart was kept of the number of seconds per Jenny elevated her head. The significance of the data Domments that follow this unit.



·

BEHAVIOR PROBLEMS:

INSTRUCTIONAL LEV

1. Describe how this unit will be useful in deali

- a. The mother feels this is crisis behavior a to child.
- b. Modification of this behavior will aid in

2. Describe how this unit will be useful in stime

- a. Having the head up and correct posture will stimulation.
- b. She will not appear as withdrawn and she stimulation.
- c. Having her head up will also give her more allowing for a vertical rather than a hore
- d. Increased mobility will allow for more ex
- e. Increased mobility will allow for more ed

3. Describe how this unit will contribute to mod

- a. No modeling or imitation was used.
- b. It could be done through tactile stimulat also the model's head as to position and

4. Is this unit's theoretical orientation direct

The unit's theoretical orientation was direct observable as well as measurable and the tech and mechanical requiring no involved interpre of 2 minutes of uninterrupted music, this wou ferent stages of the experiment in lieu of the would not be contingent upon the desired behavior

BEHAVIOR PROBLEMS: BLINDISM

INSTRUCTIONAL LEVELS

this unit will be useful in dealing with behavioral change.

er feels this is crisis behavior and interfers with her relationship

ion of this behavior will aid in achieving greater social acceptance.

this unit will be useful in stimulating action and arousal.

he head up and correct posture will give her more potential for ion.

not appear as withdrawn and she will be more available for further ion.

er head up will also give her more awareness of spacial relationships for a vertical rather than a horizontal orientation. I mobility will allow for more exploration of her environment.

mobility will allow for more educational opportunities.

this unit will contribute to modeling and imitation.

ing or imitation was used.

be done through tactile stimulation by feeling her own head and model's head as to position and posture.

's theoretical orientation direct or indirect? Explain.

heoretical orientation was direct. The behavior to be modified was swell as measurable and the techniques for measurement were specific al requiring no involved interpretation. By establishing a base line of uninterrupted music, this would make it possible to see the difsof the experiment in lieu of the "natural setting" of music which contingent upon the desired behavior.



5. Is the unit's theoretical orientation (1) behavi
(3) eclectic? Explain.

The theoretical orientation of this unit was beh verbally asked her to keep her head in the uprig shaping through behavioristic techniques. A beh head upright was attempted through rewarding des successive approximations and no direct cognitive

6. Describe how the unit provides for the transfer

This unit had built-in transfer of training sinc with social rewards (combined touch and verbal t which were used as a means of eliciting the desi to get the rewards into a realistic everyday rei be more in style with the present social standar training would also take place once the head was posture would be more erect and usable.

7. Describe how this unit relates to other training

The skills and success developed through music, as reinforcements in this particular case, would operant conditioning.

Orientation to spacial relationships and improve result.

B. Describe how this unit might be affected by the or personality.

Behavior blindism can be very much affected by the These are some of the ways in which it can be affected assistance, inability to wait and reward. The utivity to the child's tolerance level and awaren of success.



al orientation (1) behavioristic, (2) cognitive, or

tion of this unit was behavioristic. We could have eep her head in the upright position, but we attempted ristic techniques. A behavior change of keeping the ted through rewarding desirable behavior through ns and no direct cognitive approach.

rovides for the transfer of training.

transfer of training since primary rewards were replaced mbined touch and verbal to verbal praise without touch) ans of eliciting the desired behavior. The intent was a realistic everyday reinforcement system which would he present social standards of behavior. Transfer of e place once the head was in an upright position: body rect and usable.

relates to other training areas.

developed through music, with physical and social praise is particular case, would not be useful in all areas of

relationships and improvement in mobility would be the

might be affected by the teacher's teaching technique

e very much affected by the teacher and her techniques. ays in which it can be affected: by giving too much o wait and reward. The unit can be affected by sensiplerance level and awareness of appropriate degrees



¥. ·

BLINDISM (Cont'd.)

EQUIPMENT LIST

2 Universal timers
Record player
Child's favorite record
 (Dejavu-Crosby Stills Nash and Young)
2 chairs
Scoring chart
Felt pen

SUPPLIES LIST

Tagboard Felt pen

BIBLIOGRAI

"No Place Hosp: P. O

Curriculu Sant Sant 701

Cali

Nothing r with blin papers an modificat

FILMS, et

Sonoma St (Poppy Pr P. O. Box

EVALUATIV

- 1. Scori
- 2. Time

BIBLIOGRAPHY

"No Place To Go" - Pauline More, Sonoma State Hospital, HIP-Blind Project Report, P. O. Box 1400, Eldridge, California.

Nash and Young)

Curriculum Guide 2nd Annual Conference Report, Santa Cruz, 1969. Office of Education, Santa Cruz County Government Center, 701 Ocean Street, Room 200, Santa Cruz, California 95060.

Nothing really in this field dealing directly with blindism. The subject is covered in papers and books dealing directly with behavior modification.

FILMS, etc.

Sonoma State Hospital Blind Project, (Poppy Project) State Dept. Education. P. O. Box 1400, Eldridge, California 95431

EVALUATIVE TOOLS

- 1. Scoring chart
- 2. Time clocks



COMMENTS:

Bli

A task force of institute participants of found that music was a potent reinforcer.

This editor's suggestion of an operant of normal head posture in this blind girl was inspectively who successfully treated a patient sufferuse of contingent music reinforcement.

From the standpoint of operant conditions social praise and physical contact, including he issue of the effectiveness of music as a reinforby the exhortation to the subject to keep her he so. The teachers' need to include verbal directly lon (1963) encountered in his attempt at get in a mental hospital setting. Thus, "Because the of the consequences... the nurses regarded the effect on the patient's behavior. The implicit indispensable for learning is a part of present

Why did the conference participants invocentinuous personal interactions such as holding that holding her head up was desirable? It is embellishments serve more to assuage the teacher of the subject than to enhance what was original forward strategy.

The editor's interpretation of the emberous impressions gained from other sources. Thus trainers of the blind and some psychologists strainers of the blind and some psychologists strainers objections were raised. One psychologist on the grounds that it violated the "natural" deposture. If the child were placed on a belly be up "naturally" and in a fashion that would help basic difference regarding strategy is analogous havior therapists and psychoanalysts. The psychone's conflicts must precede and form the basis as Bandura (1967) points out, there is no reason of behavioral change. The reverse sequence seem nature. The developmental sequence idea has some



COMMENTS: Blindism

e of institute participants who visited the subject in her home as a potent reinforcer.

's suggestion of an operant conditioning strategy for training in this blind girl was inspired by a classic study by Barrett fully treated a patient suffering from multiple tics through the nusic reinforcement.

candpoint of operant conditioning methodology, the addition of physical contact, including hand holding, could only obscure the liveness of music as a reinforcer. The issue was further clouded to the subject to keep her head up because it was "nicer" to do need to include verbal directions is reminiscent of a problem intered in his attempt at getting nurses to carry out a program al setting. Thus, "Because the patient was not informed or warned s... the nurses regarded the procedure as unlikely to have much ent's behavior. The implicit belief that verbal instructions are learning is a part of present day psychiatric lore."

e conference participants involved in this program want to arrange l interactions such as holding the girl's hand and persuading her ead up was desirable? It is suggested that such programmatic ve more to assuage the teachers' anxieties about their treatment h to enhance what was originally an extremely simple and straight-

's interpretation of the embellishments of the program are supported ned from other sources. Thus, in discussions with both orientation ind and some psychologists strongly identified with cognitive theory, were raised. One psychologist vehemently objected to the procedure tit violated the "natural" developmental approach to training head hild were placed on a belly board on the floor, her head would come in a fashion that would help orient her to the environment. This egarding strategy is analogous to conflicting views expressed by beand psychoanalysts. The psychoanalysts would insist that insight into st precede and form the basis of meaningful behavioral change. But, points out, there is no reason why insight cannot follow upon the heels ge. The reverse sequence seems not to violate any immutable laws of opmental sequence idea has sometimes been invoked in support of



what have proven to be totally unfounded practices, as that school age children with reading disabilities sho crawling patterns (see Robbins, 1967). There appears ing that Jenny be placed on a belly board than that a time crawling about in stereotyped movement sequences

Just as behavior change can lead to insight, conditioning this girl to develop a head posture which most alert, could result in a more generalized attent lation. The procedure for producing this behavior was that it brought her to the threshold of a wider experenvironment. Once she was brought to this threshold, highly variable and most unmechanistic world of experimentaries and a strategy is that many people recoil emprecifics of the initial stages of a conditioning prothe goals toward which the behavior modifier is working that stating a behavioral objective may be nothing mother value issues that may surround it are unearthed a fashion.

There is a postscript to this program. It stain which the editor described and interpreted the program mentation for automated treatment. For instrumentation of a mercury switch attached to the head in such a father head was held up and turn off when the head was activate a unit that would transmit corresponding on-player supplied with Jenny's favorite recordings. The reinforcement immediately contingent upon the child's posture.

Provided with nothing more than this information a psychologist responded to the suggested strategy as package incorporating both a simplification of and a over the original plan. MacLynn Smith utilized the directly to an inexpensive transistor radio that the A simple "bug" type earphone was connected to the rad mitted her to wear the instrument package without both in fact, allowed to wear it at school. The total co \$2.00 exclusive of the cost of the transistor radio.

o be totally unfounded practices, as when Delacato (1959) insists ildren with reading disabilities should practice rigidly prescribed (see Robbins, 1967). There appears to be no more reason for insist-placed on a belly board than that a 12-year old disabled reader spend t in stereotyped movement sequences.

havior change can lead to insight, it seems quite possible that girl to develop a head posture which she previously assumed when result in a more generalized attentiveness to environmental stimudure for producing this behavior was mechanistic. Yet it appears to the threshold of a wider experience and contact with the she was brought to this threshold, the step beyond it was into a d most unmechanistic world of experience. The problem in interategy is that many people recoil emotionally and criticize the nitial stages of a conditioning procedure without understanding hich the behavior modifier is working. The point in all of this is avioral objective may be nothing more than a hollow formality unless hat may surround it are unearthed and resolved in a constructive

postscript to this program. It stems from a video taped lecture described and interpreted the program and also discussed instrumated treatment. For instrumentation, the editor suggested the use h attached to the head in such a fashion that it would go on when up and turn off when the head was lowered. The switch would at would transmit corresponding on-off signals controlling a record th Jenny's favorite recordings. The system would provide music diately contingent upon the child's assuming the desired head

with nothing more than this information, a classroom teacher and sponded to the suggested strategy and evolved an instrumental ing both a simplification of and a highly significant improvement plan. MacLynn Smith utilized the mercury switch but connected it expensive transistor radio that the subject carried on her person. The earphone was connected to the radio, an arrangement which pertue instrument package without bothering anyone else. She was, to wear it at school. The total cost of this equipment was about the cost of the transistor radio.

Informal observation indicates that when Jenny indeed, effective in promoting normal head posture. A investigation remains to be done.



ervation indicates that when Jenny wears this equipment, it is, promoting normal head posture. A full-fledged scientific s to be done.

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SECTION III

A FRAMEWORK OF COMMUNICATION
FOR EDUCATION



A FRAMEWORK OF COMMUNICATION FOR OF PROFOUNDLY RETARDED AND MULTI-HE

The primary goals for the development of the communication among the educators of the severely rewith a repertoire of techniques to solve behavioral the basis of improving and disseminating techniques cations follows.

Curriculum is often conceptualized in terms of Few would suggest that curriculum and curriculum pleducation. These two elements along with the teach effect on a student's progress within the school sy sold short of its full implication, for in a broad of education that concern the student.

In this context, then, curriculum can be the numerous aspects of education interrelating with on pose. The word "system" has found increased usage past few years, but unfortunately the use of system problem it attacks--poor definition and the breakdo various elements of education.

Perhaps it is easier to look upon education many aspects, people and procedures. But whether y system or program, education still consists of procedures all directed towards the basic goal of pass wishful thinking to imagine a large body of people without some common language through which objective groups and their efforts converged towards that comorganizational or systems analysis.

Systems analysis in the most rigorous sense the elements or aspects of an organization (or syst efforts of these elements into a whole. The key to not how to make rules or methods more precise, but between different elements of the system through an



A FRAMEWORK OF COMMUNICATION FOR THE EDUCATION F PROFOUNDLY RETARDED AND MULTI-HANDICAPPED MINORS

y goals for the development of this guide were to promote increased g the educators of the severely retarded and provide those educators of techniques to solve behavioral problems. Since communication is ving and disseminating techniques, a short discussion of its impli-

is often conceptualized in terms of study or types of subject matter. that curriculum and curriculum planning are the only elements of two elements along with the teacher's influence have the most direct it's progress within the school system. However, curriculum is often full implication, for in a broad sense it involves all the aspects concern the student.

ontext, then, curriculum can be thought of as a system--that is, of education interrelating with one another towards a common pursystem" has found increased usage within educational circles in the unfortunately the use of systems has suffered from the exact s--poor definition and the breakdown in communication between the of education.

t is easier to look upon education as an organization, with its ple and procedures. But whether you use the words organization, education still consists of procedures, methods, policies and ted towards the basic goal of passing on knowledge. It would be to imagine a large body of people working towards a common goal on language through which objectives could be defined for various efforts converged towards that common goal. Thus, the need for systems analysis.

nalysis in the most rigorous sense means nothing more than studying spects of an organization (or system) in an attempt to converge the elements into a whole. The key to systems analysis, therefore, is ules or methods more precise, but how to improve the interaction elements of the system through an improved framework of communication.



Curriculum as a system involves many people and abilities. The student lies at the focal point is the curriculum designer to know the needs of each probable that he will never meet all these students instructional method is best suited for each student exposure to the vast numbers of lesson plans and current how is the administrator to know which of the method acceptable with regard to the established budget? tions have an implied answer—communication. But a realities of the educational community, this communication.

In order for the educational community to utilize its full potential, it is necessary that it This learning will call for evaluation of objective standards. At this point people often throw up the analysis" or something similar in denoting their caspects of role definition and evaluation. But if then it would follow that it must first define its amount of improvement achieved. To know where you been. This is the role of the system analyst—to piece together their needs and abilities so as to

This curriculum guide offer specific "cook! needs of profoundly retarded children, along with tions that underlie these methods. While these and not been developed by a systems analyst, they were do them. The problems of proper curriculum were by task groups, solutions identified and examined, and by step with many trade-offs being made.

Curriculum must be used that is relevant t requires that the needs of each student be known a suggest the need for an extensive diagnosis for eather teacher in prescribing instructional methods. research related to development of the profoundly



A Title VI B Project, <u>Behavioral Objectives for</u> is attempting to provide a defined systematic a in education.

as a system involves many people with continuously changing needs student lies at the focal point of curricular efforts. But how esigner to know the needs of each student when in fact it is most l1 never meet all these students? How is the teacher to know which d is best suited for each student when she can't possibly obtain t numbers of lesson plans and curriculums that have been developed? rator to know which of the methods selected by the teacher is ard to the established budget? These and many other everyday quesed answer--communication. But all too often, within the hectic ucational community, this communication breaks down.1

r the educational community to learn how to solve its ills and tential, it is necessary that it learn from its own experience. call for evaluation of objectives, and this evaluation will require point people often throw up their arms and cry "paralysis by ing similar in denoting their concern over the apparent de-humanizing inition and evaluation. But if education seeks to improve itself, w that it must first define itself to determine the direction and nt achieved. To know where you are going is to know where you have role of the system analyst—to help those within an organization r needs and abilities so as to function as an interacting whole.

ulum guide offer specific "cookbook" methods of dealing with the retarded children, along with considerations of the many assumpthese methods. While these analytically developed methods have by a systems analyst, they were done exactly as an analyst would ems of proper curriculum were broken down systematically by the ons identified and examined, and detailed methods developed step rade-offs being made.

must be used that is relevant to each child or student. This eeds of each student be known and understood. This would in turn r an extensive diagnosis for each student--a diagnosis usable by cribing instructional methods. Because of the broad base of development of the profoundly retarded child, there is sparse

ject, Behavioral Objectives for Handicapped Children, Santa Cruz provide a defined systematic approach to improve communication



continuity in the jargon and methods used by those interacting with parent, the teacher from last year, the clinician, and often the approach of this guide combined with the theoretical implications partially solves these concerns and enhances necessary communicati

To isolate a general area of need is always easier than important, the difference being the intervening detail. We all use systems analysis in our everyday lives, all the way from selecting to deciding when to go to bed. To think of such efforts as system important, but to learn to extend this natural habit to the educated does require some practice.

Most of us act according to some immediate or long-term of usually consider different ways of pursuing these objectives. One that appears most promising, we use it in approaching our objective ing this objective, we continuously evaluate whether or not the particular that objective in attaining that objective right now when you read this page--is this information improving using curriculum--and if not, should you pursue the alternatives of to talking with your neighbor?

It is this analytical framework that helps to pinpoint prothe use and evaluation of different (alternate) ways of attaining This refined approach permits a converging basis for communication

By viewing education as a system which includes many different or communication becomes mandatory. This framework, produced in fashion based upon the needs and suggestions of those involved in process, can become a powerful tool for improving the effectivenes educational program. For example, envision all the people with we interact regarding your role in education; how is it possible to individual a perspective of how their efforts can constructively local and general goals of education? On page 113 is a simple disorganizational structure of a program based upon interacting decimals.

With reference to the attached decision structure, this consists is providing the basis of operation for those decisions at levels placing the activities of the teacher that stem from her decision with all the decisions of others in the educational community, it to develop a program structure or framework that relates to community some formal organization chart.



and methods used by those interacting with the child--the last year, the clinician, and often the child himself. The mbined with the theoretical implications of each method neerns and enhances necessary communication and continuity.

ral area of need is always easier than implementing a viable being the intervening detail. We all use the methods of veryday lives, all the way from selecting food for breakfast bed. To think of such efforts as systems analysis is not extend this natural habit to the educational community

ording to some immediate or long-term objectives, and we ways of pursuing these objectives. Once we select a way and we use it in approaching our objective. While approaching outlinuously evaluate whether or not the particular way we effective in attaining that objective. You are doing that is page--is this information improving your knowledge of not, should you pursue the alternatives of going back to the eighbor?

cal framework that helps to pinpoint problems and permits different (alternate) ways of attaining those objectives. its a converging basis for communication.

on as a system which includes many different people with rds a basic goal (education of the child), a framework mandatory. This framework, produced in a systematic ds and suggestions of those involved in the education rful tool for improving the effectiveness of the entire example, envision all the people with whom you work or le in education; how is it possible to give to each of how their efforts can constructively contribute to the education? On page 113 is a simple diagram that suggests of a program based upon interacting decisions.

the attached decision structure, this curriculum guide operation for those decisions at levels 4 and 5. By the teacher that stem from her decisions in perspective others in the educational community, it is then possible ture or framework that relates to communication and not ion chart.



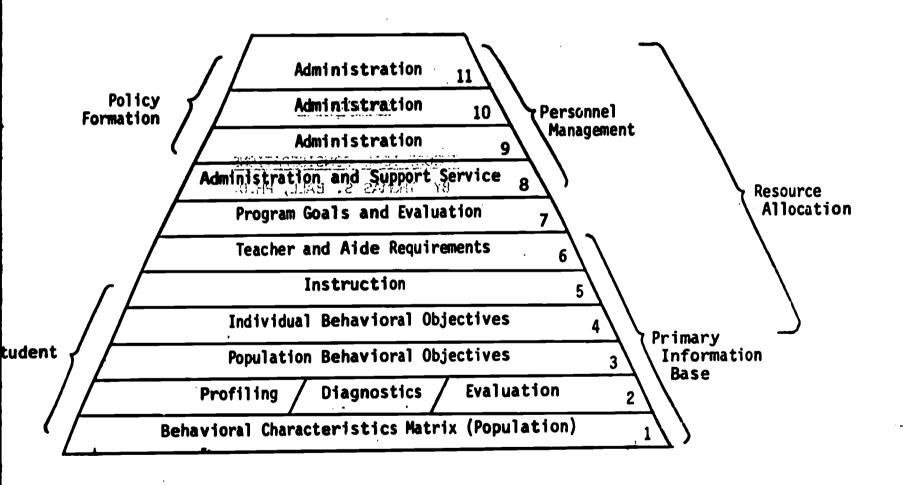
This framework as applied to a curricular system will help the teacher evaluate the curriculum content relative to individual student objectives, evaluate the objectives and finally aid the clinician in diagnosis of the child as objectives are attained. Such activities provide for education's learning about itself--all through a framework of communication.

For a more detailed discussion of this concept, its implications and supporting information, contact V.O.R.T. Corporation, Santa Cruz County Office of Education, Title VI B Project 44-00000-0000-723, Behavioral Objectives for Handicapped Children.

Thomas D. Holt

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PROGRAM STRUCTURE: DECISION HIERARCHY



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SECTION IV

THEORETICAL CONSIDERATIONS
BY THOMAS S. BALL, PH.D.



A PHILOSOPHY OF CURRICULUM PLANNING

FOR DEVELOPMENT CENTERS

Background of the Problem - Bloom's Taxonomy

In 1948, a group of psychologists interested in college level achievement testing met to discuss the difficulties of cooperating and communicating about work on educational evaluation. A major obstacle to such communication was the absence of a common frame of reference for discussion. To remedy this problem, they proposed to develop a taxonomy or classification system for educational objectives. They proposed to define such objectives in behavioral terms and to place them within an overall classification scheme. This scheme would have to incorporate a clear and meaningful terminology. Thus, "It was hoped that the statement of an objective in similar terms by different workers would make possible a definite classification of that objective and would also permit exact inferences about the kinds of behaviors expected of students." They added, "An even more important value we hoped to secure from the classification scheme was that of comparing and studying educational programs." (Krathwahl, et al, 1964, p. 5)

The next major step in the development of a taxonomy was that of establishing a three-fold division of educational objectives: cognitive, affective, and psychomotor. The following table (page 115) summarizes these three educational domains and the sequentially arranged objectives used to define them.

It was intended that this new taxonomy would represent more than a static classification. Rather, the ordering of educational outcomes should reflect a natural learning sequence. Implied in this is a kind of developmental sequence in which some outcomes function as the basis for later ones. For example, in the reference which follows, "orientation" is depicted as the third step in a skill continum beginning with perception. This sequence suggests that training should begin at the level of perception and work up to the level or orientation.



-

QUICK REFERENCE* FOR BLOOM'S THRE

Bloom, et al., suggests sixteen terms that may be used i clearly and thus improve communication. They are:

Ì	Cognitive Domain	(i.e., intellectual processes of the le
	Knowledge	recognition and recall of information theories, and structures.
١	Comprehension	interpretation of what has been leaduse of knowledge in new situations.
l	Application Synthesis	combining elements into new wholes
	Evaluation	judging materials and methods using
	Affective Domain	(i.e., emphasis on emotional processes values, and adjustments)
	Receiving Responding Valuing	passive attention to stimuli (i.e., reacting to stimuli (complying, volume)
	Valuing	actions consistent with a belief or
	Organization Characterization	commitment to a set of values (disc
	Psychomotor Domain (i.e., emphasis on motor behaviors i	
	Perception	sensitivity to stimulus normally lesensing, etc.).
	Preparation	involves readiness to perform (e.g.

ease and control).

bodily stance, willingness).

knowing and/or deciding an appropria learned response that is habitual

a skill pattern or low error respon response that is a complex motor ac

skill (e.g., polished behavior, com



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Orientation

Performance

Pattern

^{*} This Table reproduced by permission of Dr. Robert A. Le Special Education, California State College, Fullerton.

QUICK REFERENCE* FOR BLOOM'S THREE DOMAINS

suggests sixteen terms that may be used in describing behavior more us improve communication. They are:

in (i.e., intellectual processes of the learner)

recognition and recall of information, terms, classes, procedures, theories, and structures. interpretation of what has been learned. use of knowledge in new situations. combining elements into new wholes (induction). judging materials and methods using standards or criteria.

in (i.e., emphasis on emotional processes such as feelings, interests, values, and adjustments)

passive attention to stimuli (i.e., sensory inputs). reacting to stimuli (complying, volunteering, etc.). actions consistent with a belief or value. commitment to a set of values (discussion, formulating values). total behavior conforming to internalized values (e.g., philosophy).

main (i.e., emphasis on motor behaviors involving neuromuscular coordination)

sensitivity to stimulus normally leading to action (e.g., cue, sensing, etc.).
involves readiness to perform (e.g., possesses knowledge, bodily stance, willingness).
knowing and/or deciding an appropriate response to be made.
a learned response that is habitual, smooth, and confident (e.g., a skill pattern or low error response).
response that is a complex motor action involving high degree of skill (e.g., polished behavior, complicated responses, made with ease and control).

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on

The authors of the taxonomy point out that their educational objectives has historical antecedents extending philosophy. They also concede that "Modern research or raises serious questions about the value of these simpled al, 1964, p. 7). However, they proceed to justify that they reflect the distinctions that teachers and commake in the course of classifying educational objective is in line with common practice, it is assumed that it efforts of educators to develop curricula. They further that a natural reconciliation between classification of personality will occur in the context of teacher-student system will ultimately lead to a greater power for organization process.

Many professionals applaud the classification of a pioneering effort to inject a degree of objectivity of ceptualizing and ordering information in what has been field of endeavor. The system set forth as guidelines Development Institute for the Multi-Handicapped at the Santa Cruz campus reflects many of the same concerns the of the taxonomy, often referred to as Bloom's Taxonomy some important respects. A critical difference arises Taxonomy is "educational-logical-psychological," in the developed in deference to accepted usage for teachers of Thus, "Insofar as possible, the boundaries between cate related to the distinctions teachers make in planning clearning situations. It is possible that teachers make ogists would not make in classifying or studying human such distinctions are functional. Yet it can be argued

Theoretical Orientation (cognitive vs. behavioristic) - A Point of Breakdown in Bloom's Taxonomy

Systems of classification can provide order and existed previously. But there is an infrequently acknowled, they may lead to premature and unwarranted interpart As a case in point, consider this writer's category of which the cognitive theorists's use of hypothetical contant "laterality" is contrasted with the behaviorist's an extreme example of the practical implications of such as the strength of the practical implications of such as the strength of the practical implications of such as the strength of the practical implications of such as the strength of the practical implications of such as the strength of the practical implications of such as the strength of the practical implications of such as the strength of the practical implications of such as the strength of th



ors of the taxonomy point out that their threefold division of tives has historical antecedents extending back to ancient Greek also concede that "Modern research on personality and learning testions about the value of these simple distinctions." (Krathwohl, 1). However, they proceed to justify their domains on the grounds the distinctions that teachers and curriculum workers typically se of classifying educational objectives. Therefore, because it common practice, it is assumed that it will facilitate the ongoing fors to develop curricula. They further voiced the expectation econciliation between classification of objectives and theories of occur in the context of teacher-student interaction and that the nately lead to a greater power for organizing and controlling the

essionals applaud the classification of educational objectives as rt to inject a degree of objectivity and provide a basis for conordering information in what has been a confusing and contradictory The system set forth as guidelines for the 1970 Curriculum **.** tute for the Multi-Handicapped at the University of California/ reflects many of the same concerns that motivated the development often referred to as Bloom's Taxonomy. It does, however, differ in spects. A critical difference arises from the fact that Bloom's ational-logical-psychological," in that order of priority. rence to accepted usage for teachers and curriculum specialists. s possible, the boundaries between categories should be closely stinctions teachers make in planning curricula or in choosing ons. It is possible that teachers make distinctions which psycholmake in classifying or studying human behavior." They assume that s are functional. Yet it can be argued that they are not.

ntation (cognitive vs. behavioristic) - lown in Bloom's Taxonomy

of classification can provide order and continuity where only chaos y. But there is an infrequently acknowledged accompanying hazard, and to premature and unwarranted interpretations and value judgments. It, consider this writer's category of "theoretical framework" in ve theorists's use of hypothetical constructs such as "body image" is contrasted with the behaviorist's emphasis on observable events. Le of the practical implications of such distinctions can be seen in



THEORETICAL CONSIDERATIONS (Cont'd.)

the divergent positions taken by psychoanalysts and behament of phobias. So pervasive are their differences that basic nature of the disorder, and, of course, what const two groups cannot find a common ground for measuring the programs. To hope for a practical resolution of the difference is like expecting a meaningful result from two text pletely different sets of rules. An evaluation of this that theory is an important determinant of how behavior guides and directs the development of curriculum contents.

Although in a rather vague fashion, teachers of basic assumptions and concomitant biases of cognitive an most do so without being explicitly aware of it. They a what are, after all, the theoretical biases of their form theoretical games without knowing the rules or, for that that it is a game.

To illustrate the practical implications of diff tation, consider the case of an autistic or retarded chi in self-injurious headbanging. The influence of theoret play at the very moment at which one attempts to explain theorist seeks to explain it in terms of what he guesses on inside of the child's head. If he is a psychoanalyst bizarre behavior by suggesting that the child is not rea punishing someone else whose identity he has taken with: Another cognitive theorist with a different background i explanation. Jean Ayres (1968), for example, may look that this activity is an outward expression of the child rium in a disturbed homeostatic balance between excitat: nervous system. Just as a furnace is automatically turn thermostat set to react at a particular room temperature ence of some kind of thermostat within the nervous systematical systems. operation of thermostats in heating systems, the idea o has considerable appeal. It makes sense out of an exce We may embrace the idea with a sense of relief.



^{*} This is admittedly an over-simplification of Ayres' con

RATIONS (Cont'd.)

ions taken by psychoanalysts and behaviorists regarding the treato pervasive are their differences that they even disagree about the
disorder, and, of course, what constitutes a cure. Obviously, the
ind a common ground for measuring the results of their treatment
for a practical resolution of the differences between the two
cting a meaningful result from two teams playing a game with comsets of rules. An evaluation of this dispute points up the fact
important determinant of how behavior is viewed. Consequently, it
the development of curriculum content and how results are measured.

a rather vague fashion, teachers of the retarded do adopt the and concomitant biases of cognitive and behavioristic theory, yet being explicitly aware of it. They accept as concrete realities, the theoretical biases of their former teachers. They are playing without knowing the rules or, for that matter, without even knowing

te the practical implications of differences in theoretical orienhe case of an autistic or retarded child who consistently engages headbanging. The influence of theoretical orientation comes into ment at which one attempts to explain the behavior. The cognitive explain it in terms of what he guesses or hypothesizes may be going aild's head. If he is a psychoanalyst he may make sense of this suggesting that the child is not really hurting himself, he is lse whose identity he has taken within himself (introjected). heorist with a different background may come up with still another Ayres (1968), for example, may look at the same child and suggest is an outward expression of the child's attempt to restore equilibhomeostatic balance between excitation and inhibition within the ist as a furnace is automatically turned on by the action of a react at a particular room temperature, Ayres postulates the existof thermostat within the nervous system.* Since we understand the stats in heating systems, the idea of a neurological thermostat peal. It makes sense out of an exceedingly bizarre phenomenon. idea with a sense of relief.

an over-simplification of Ayres' concepts.



The behaviorist, and most specifically the avoids from the very outset the temptation to expl what is going on inside the head, that is, in term such explanations pseudo-scientific "will-o'-the-we need for an explanation. But as guiding principle tive behavioral technology, he believes them to be considers the cognitive theorist's measurement to indirect measurement of a fictional process can be which it was based. It is like using an elaborate them does not enhance its ultimate usefulness. Un of authenticity, it may inspire treasure seekers to also, say the behaviorists, may a satisfying cogniphenomenon.

observable, objectively measurable events. In perbehavior, he records in detail the environmental occurs (Antecedents), he carefully records the chiwhat happens to the child once the behavior starts example, that the child headbangs in a certain rood day and in the presence of a particular person; the his head against the wall without drawing blood or it occurs, his mother rushes up, completely immobisays, "Please don't hurt yourself." For the behavior resides in the analysis of such sequences matter of manipulating the contingencies which, in banging, would probably entail the removal of the of comforting the child. He may also reward behavior as would be provided by many kinds of play activities.

In terms of evaluating his success, the befirst get a base line, a measure of the rate of he on the average of one hundred times per hour over

Although behaviorism encompasses several relate that brand of behaviorism developed by B. F. Sl

iorist, and most specifically the proponent of operant conditioning, ery outset the temptation to explain the child's behavior in terms of inside the head, that is, in terms of mental phenomena. He considers pseudo-scientific "will-o'-the-wisps" that satisfy the observer's nation. But as guiding principles for the development of an effecenhology, he believes them to be counterproductive. Further, he nitive theorist's measurement techniques as spurious in that the ent of a fictional process can be no more valid than the fiction on d. It is like using an elaborate map to locate mythical lost treasure. map provides exact designations of locations and distances between ance its ultimate usefulness. Unfortunately, if the map has the look it may inspire treasure seekers to years of fruitless activity. So aviorists, may a satisfying cognitive explanation of a behavioral

corist-operant conditioner analyzes the child's behavior in terms of cively measurable events. In performing a functional analysis of the rds in detail the environmental context in which the head banging ts), he carefully records the child's exact behavior (Behavior) and he child once the behavior starts (Consequences). He may find, for the child headbangs in a certain room of the house, at a certain time of esence of a particular person; that he lightly hits the right side of the wall without drawing blood or causing a bruise; that as soon as ther rushes up, completely immobilizes him and in a pleading voice that the the analysis of such sequences and contingencies. Control is a ating the contingencies which, in this case of noninjurious head-obably entail the removal of the reinforcing (rewarding) consequence child. He may also reward behavior incompatible with headbanging-ded by many kinds of play activity.

of evaluating his success, the behaviorist-operant conditioner would line, a measure of the rate of headbanging, e.g., the child may bang one hundred times per hour over a 24-hour period. He would then

iorism encompasses several related approaches, the writer emphasizes behaviorism developed by B. F. Skinner and known as operant conditioning.

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THEORETICAL CONSIDERATIONS (Cont'd.)

carry cut the behavioral program and recheck the not significantly decrease, he would adjudge the further into the influence of environmental event course of the initial functional analysis and wou

What if Ayres, guided by her belief in th thermostat, located a mass of neural tissue that a control mechanism? Further, let us suppose that tissue could be detected by means of an extremely believed that peaks of electrical activity indica Because such "inside" activity could be measured iorist could then incorporate it into his function were shown to be reliably related to such peaks of this kind of data as contributing to the understa Ayres could then argue that the bias developing of vated and guided the continuing search for an act be right. A bias that may lead into a blind alle operant conditioner, however, believes that hypotential blind alleys -- to the development of elaborate the approaches that are closed, self-validating systematical rather than corrected.

The cognitive theorist concedes that the with a high degree of efficiency. But the cogni iorist accomplishes such performances without re which learning takes place, he violates these pr a short-term goal at the expense of the long-ter structures. The cognitivist considers such perf Kephart's (1960) terms, "splinter skills," that he would remind the behaviorist that animals can formances such as "reading" which suggests a lev illusory--such is the nature of "splinter skills that the "splinter skill" argument must be backed is generally lacking. And he would aver that si behaviors happen to follow the sequences incorpo does not necessarily mean that they need be taug would add that a slavish adherence to such seque essary and unproductive training activities.



DERATIONS (Cont'd.)

avioral program and recheck the rate of the behavior. If the rate did decrease, he would adjudge the program a failure. He would then look influence of environmental events that he may have overlooked in the tial functional analysis and would then seek to control these events.

yres, guided by her belief in the physical existence of a neurological ed a mass of neural tissue that she believed actually contained such Further, let us suppose that electrical activity coming from this sm? etected by means of an extremely sensitive apparatus and that Ayres ks of electrical activity indicated that the thermostat was "on." ide" activity could be measured in an objective fashion, the behavincorporate it into his functional analysis. If then, the headbanging reliably related to such peaks of elctrical activity, he would consider as contributing to the understanding of the phenomenon of headbanging. argue that the bias developing out of her hypothetical construct motithe continuing search for an actual physical structure. And she would that may lead into a blind alley may also lead to discovery. The er, however, believes that hypothetical constructs more often lead to the development of elaborate theoretical structures and therapeutic re closed, self-validating systems in which errors are perpetuated cted.

tive theorist concedes that the behaviorist can train many behaviors be of efficiency. But the cognitivist argues that because the behavnes such performances without regard for the underlying processes by akes place, he violates these processes. The behaviorist may achieve at the expense of the long-term development of more mature cognitive cognitivist considers such performances isolated "tricks" or, in terms, "splinter skills," that lack generalized significance. And the behaviorist that animals can be taught to carry out complex perseading" which suggests a level of understanding that is only the nature of "splinter skills." The behaviorist would counter skill" argument must be backed by experimental proof, proof that king. And he would aver that simply because childrens' emeging to follow the sequences incorporated into developmental tests, this rily mean that they need be taught in such sequences. The behaviorist slavish adherence to such sequences may, in fact, involve many unnecductive training activities.

The objections of the cognitive theorist extensive. On esthetic, philosophical and ethical grounds techniques as crassly manipulative, as mechanistic and washing" that renders a subject less human and more subject less human a

This writer believes that the mutual hostilit cognitive groups is counterproductive to scientific p groups would probably disagree, he believes that ever effort to synthesize and integrate the two approaches achieve in his book Itard, Seguin and Kephart: Senso Interpretation. I

As an example of how theoretical consideration ulum productions of the third Santa Cruz Conference, on pages 67 to 80. As noted in the Editor's comments program involves a number of features that are based reflecting a cognitive interpretation of the learning assumptions of this kind have become so engrained in implicitly assume the status of facts. The result is these "facts" are incorporated as seemingly necessary training approach based on a behavioristic strategy is shortcut that could greatly curtail the time and expensively. On the other hand, certain incidental benefit ficed in the course of taking such a shortcut. Unfor perspective, the teacher may remain unaware of the verpossibilities. Nor does it seem likely that Bloom's accepted usage, would lead to the detection and clari-



¹ Published by Charles E. Merrill, 1971.

hs of the cognitive theorist extend to other considerations, howphilosophical and ethical grounds he rejects the behaviorist's
y manipulative, as mechanistic and detached, as a form of "brains a subject less human and more succeptible to authoritarian
er, he may believe that behavioristic techniques subvert the
tary behavior, spontaneity, individual choice, and, ultimately,
e, it can be seen that the cognitive theorist's rejection of
is much more than on a scientific basis. It involves "gut
s basic value system and his convictions regarding what is
existence, in short, his philosophy of life.

pelieves that the mutual hostility between the behavioristic and counterproductive to scientific progress. Further, although both disagree, he believes that everyone stands to benefit from an and integrate the two approaches. This he has attempted to that of the counterproperty of the counterprope

he third Santa Cruz Conference, review the "nose blowing" program as noted in the Editor's comments, this seemingly straightforward amber of features that are based on theoretical assumptions interpretation of the learning process. The problem is that kind have become so engrained in educational folklore that they status of facts. The result is that procedures reflecting proporated as seemingly necessary aspects of a program. Yet a sed on a behavioristic strategy may result in a programmatic greatly curtail the time and expense involved in teaching this hand, certain incidental benefits of importance may be sacrification faking such a shortcut. Unfortunately, lacking a theoretical her may remain unaware of the very existence of such alternative does it seem likely that Bloom's Taxonomy, which caters to delead to the detection and clarification of such possibilities.

les E. Merrill, 1971.



Bloom's Taxonomy and Educational Objectives for

Bloom's Taxonomy is, after all, a class to meet the needs of testing specialists dealing mentally retarded. That explains the immediate cognitive domain and the misgivings and result the affective and psychomotor domains. It mig construct the taxonomy began at the wrong end This point may become clear in reference to the catagory under "receiving" which is in the affection is in the psychomotor domain. Both are related and arousal. Yet where measurement of awaren Taxonomy admit to grave difficulties (see Hand The writers cite the example of an art teacher awareness of the effect of color, form, design his evolving sensitivity to such variables, th at a series of paintings and describe them. S the student's reports, he cannot directly sugge student fails to mention such characteristics. entirely possible that he was aware of them wh not verbalize them. He even may have been awa

Happily, at the level of profound ment measure awareness (activation and arousal) with vent the problems noted above. Not only that, additional advantage of being "program free"—of any and every program irrespective of context of directly comparing the result of say, music creative dance. One such measure is based on repetitive behavior such as body rocking! (Kaupeutic program fails to reduce the frequency of extremely limited value, whatever its context proposed by the authors of the Taxonomy even a this simple and objective measure for the professional such as the profession of t



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l Activation and arousal can also be measured psychophysiological techniques.

and Educational Objectives for the Mentally Retarded

Taxonomy is, after all, a classification system designed originally s of testing specialists dealing with college students, not the d. That explains the immediate emphasis placed on developing the and the misgivings and resultant delays in developing systems for nd psychomotor domains. It might even be argued that efforts to exonomy began at the wrong end of the continum of intelligence. pecome clear in reference to the objectives of "awareness," a subreceiving" which is in the affective domain, and "orientation" which notor domain. Both are related to the present category of "activation et where measurement of awareness is concerned, the authors of the o grave difficulties (see Handbook II: Affective Domain, pp. 101-102). e the example of an art teacher who seeks to develop the student's e effect of color, form, design, etc., in art media. To evaluate nsitivity to such variables, the teacher may have the student look paintings and describe them. Since he must carefully avoid biasing ports, he cannot directly suggest what to look for. But what if the o mention such characteristics. As the authors point out, "It is le that he was aware of them when looking at the paintings but did hem. He even may have been aware of them at a semiconscious level."

station, and arousal) with techniques that completely circums noted above. Not only that, but some of these techniques have the ntage of being "program free"——they can be applied to the measurement y program irrespective of content. This extends to the possibility paring the result of say, music therapy with finger painting or One such measure is based on the occurrence of objectively recordable vior such as body rocking! (Kaufman and Levitt, 1965). If a therafails to reduce the frequency of this behavior, it can be considered mited value, whatever its content. None of the measurement procedures authors of the Taxonomy even approach the generalized significance of objective measure for the profoundly retarded.

nd arousal can also be measured by means of simple, objective, logical techniques.



In the present classification system a seri that are, in some respects, analogous to the behavi Bloom's Taxonomy. But unlike the objectives of the heterogeneous and reflect an inferred developmental extent. Crisis problems, for example, reflect the considerations while "theoretical framework" reflections. No claim is made for comprehensiveness of conly tentative. The rationale for some of these camore comprehensive and developmentally relevant fast and Kephart: Sensory Education - A Learning Interpretations.

Santa Cruz System for Evaluating Educational Object for the Severely Retarded

To illustrate the application of the present evaluation of behavior objectives for the severely editor has applied the series of eight questions to "Angels in the Snow" (hereinafter referred to as Allying on his back, learns to move his legs and arms specified by the teacher. For younger, more impair to rub the child's limbs to help him identify them creasingly aware of their being a part of him and to voluntary effort.

The first question or criterion by means of item is in terms of <u>Crisis</u> <u>Problems</u>. Thus, prior a new child enters a class we must be able to contact the contact that it is of absolutely no important intolerable, if he cannot be brought under verbal to attend. We assert that if these goals are not a program should probably be judged a failure.

A.S. was not designed as a direct approach Yet it does, incidentally, influence them. Clearly movement patterns specified by the teacher in response to deal of control is being exerted over his besome control over his own behavior. Also, he is a responding to verbal instructions. From a behavior apparent that the child is receiving much social response.



esent classification system a series of questions were developed respects, analogous to the behavioral objectives set forth in But unlike the objectives of the Taxonomy, they are much more reflect an inferred developmental sequence to only a very limited roblems, for example, reflect the most practical and pragmatic of ile "theoretical framework" reflects relatively abstract consideratis made for comprehensiveness of coverage and they are set forth as The rationale for some of these categories is explained in a much and developmentally relevant fashion in the book Itard, Seguin Sory Education - A Learning Interpretation.

for Evaluating Educational Objectives Retarded

rate the application of the present classification system to the avior objectives for the severely and profoundly retarded, the distributed the series of eight questions to Kephart's training activity, by (hereinafter referred to as A.S.). In this activity the child, learns to move his legs and arms through various movement patterns teacher. For younger, more impaired children, the teacher may need a limbs to help him identify them. In this manner he becomes information of their being a part of him and that they can be moved through

question or criterion by means of which we evaluate this training of Crisis Problems. Thus, prior to all other considerations, when a class we must be able to contain him within the facility. tial is of absolutely no importance if his behavior is socially e cannot be brought under verbal control or he cannot be taught sert that if these goals are not met within four months, then the obably be judged a failure.

not designed as a direct approach to dealing with crisis problems. dentally, influence them. Clearly, if a child learns to carry out specified by the teacher in response to her verbal commands, a trol is being exerted over his behavior. He, in turn, acquires his own behavior. Also, he is attending to the teacher and bal instructions. From a behavioristic point of view, it is child is receiving much social reinforcement for activities



THEORETICAL CONSIDERATIONS (Cont'd.)

incompatible with problem behavior. The technique one directly attacking the problem behavior. Patter have written a programmed text for parents. It out from operant conditioning, for dealing with their of in terms of the question of crisis problems, the that approach is much less important than its efficacy is control within a reasonable period of time.

It is essential to provide an objective measuress in achieving behavioral control. The evaluation recordable, measurable events rather than inferred techniques need not be complicated. For example, a developed by observing the child for a minute at the banging occurs during the minute interval, it is so observations over a period of several days can province measurement at the end of four months will indicate been made.

A second question deals with the problem of severely impaired individuals "turned on" to the or children become "turned off" to anything but self—that of the blind child who sits rocking back and attempt to disrupt this activity and establish conwarding us off. He provides his own sources of statum what we offer in the course of limited interactions.

With the concept of activation and arousal free approach to evaluating the relative effectives evolved. It would entail simply recording the number behavior on one occasion and returning a few months still rocking, the educational program, irrespective a failure. At this level, whatever gets the child good. Once he is "hooked," the program may remain depending upon its evolving functional significance.

Once again, A.S. was not designed to deal it has been found highly effective in activating years.



CONSIDERATIONS (Cont'd.)

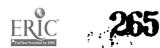
with problem behavior. The technique may not be as rapid or efficient as attacking the problem behavior. Patterson and Gullion (1968), for example, a programmed text for parents. It outlines a direct approach, derived conditioning, for dealing with their children's behavior problems. the question of crisis problems, the theoretical basis of a successful much less important than its efficacy for obtaining the necessary behavioral in a reasonable period of time.

s essential to provide an objective means of evaluating the extent of one's chieving behavioral control. The evaluation should be based on observable, measurable events rather than inferred psychological states. Yet the eed not be complicated. For example, a base line for headbanging may be observing the child for a minute at the beginning of each hour. rs during the minute interval, it is scored. An accumulation of such over a period of several days can provide an adequate base line. Repeated at the end of four months will indicate whether significant progress has

cond question deals with the problem of <u>Activation and Arousal</u>, of getting aired individuals "turned on" to the outside world. All too often such ome "turned off" to anything but self-stimulation. A familiar example is blind child who sits rocking back and forth hour after hour. When we isrupt this activity and establish contact with him, he may respond by ff. He provides his own sources of stimulation, sources more satisfying offer in the course of limited interactions with him.

the concept of activation and arousal as a point of departure, a program h to evaluating the relative effectiveness of various programs can be would entail simply recording the number of children engaging in rocking one occasion and returning a few months later to reevaluate. If they are g, the educational program, irrespective of its content, can be adjudged At this level, whatever gets the child "hooked" on the environment is he is "hooked," the program may remain important or may become trivial on its evolving functional significance.

again, A.S. was not designed to deal expressly with this problem. found highly effective in activating younger, more impaired children who



require much tactile stimulation to learn the necessary withdrawn, self-stimulating children may become more resin the world of people and things as the result of such incidental payoff of this item in Kephart's training.

A third variable is that of Modeling and Imitation behavior modification group has emphasized the tremendor of imitation training (see Baer, et al, 1967 and Lovaas child becomes generally imitative, it is no longer necesseparately. He learns through imitation, a process that sically) reinforcing. Were it not for the generalized speech as we know it would be prohibitively difficult to the necessary individual speech sounds would be a ponder is such an important variable, one should assess the extinual attaining activity and how much the activity, in turn

Kephart did not mention imitation training in conservation of the teaching process reveals that the teaching are a movement, e.g., raising the arm, in the course do so. While the amount of such imitation occurring durinstruction has not been formally assessed, it seems most and to the extent that it does occur and the learned progeneralized, it may lend itself to facilitating the acquirement of the child learns to shape his lips to make the of some teacher.

A fourth question deals with assessing a technic Framework. Though many people spurn theoretical consider impractical, theory does, in fact, importantly contributerpret behavior and, further, how we train or modify theories generate highly contradictory and incompatible example, the motor training program of the Doman-Delacate requires the child to pass through a sequence equivalent lation of the motor patterns through which human anteces of evolution. A case in point is that of a child with tioning who would not be permitted to practice walking crawling until he passed through the amphibian stage of stands in marked contrast with Kephart's training for medication. Rather than rigidly prescribed "patterning," to changing series of activities that require novel adaptates



to learn the necessary movements. Even passive, ren may become more responsive to and interested as the result of such experience -- another Kephart's training.

of Modeling and Imitation. In recent years the mphasized the tremendously facilitating effect et al, 1967 and Lovaas, et al, 1966). Once the , it is no longer necessary to teach each new skill itation, a process that he finds naturally (intrint for the generalized imitativeness of the infant, hibitively difficult to train. To "shape" each of bunds would be a ponderous task. Since imitation e should assess the extent to which it is involved the activity, in turn, develops it.

mitation training in connection with A.S. However, ss reveals that the teacher may frequently demonthe arm, in the course of instructing the child to imitation occurring during the course of A.S. assessed, it seems most likely that it does occur. cur and the learned propersity to imitate becomes o facilitating the acquisition of other skills, as s lips to make the o sound in imitation of his

ith assessing a technique within a Theoretical urn theoretical considerations as "ivory tower" act, importantly contribute to how we view and how we train or modify it. Sometimes different ctory and incompatible courses of action. For am of the Doman-Delacato program (Delacato, 1959) has equence equivalent to a Darwinian recapitutely which human antecedents passed in the process that of a child with highly impaired motor function of the amphibian stage of crawling. This program the amphibian stage of crawling. This program phart's training for motor vairability and general-scribed "patterning," Kephart provides a continuously trequire novel adaptations and adjustments on the



THEORETICAL CONSIDERATIONS (Cont'd.)

part of the child. As Bateman perceptively noted, "All both Delacato and Kephart contain a large motor expressions superficial resemblance reflects quite different rationale," (1964). Unfortunately, many teachers are resemblance" and feel that in selecting one or the other between approximately equivalent alternatives. This is

The theoretical basis of A.S. is related to the body image. Both are inferred internal processes or hy difficult to assess directly in terms of observable, me tute mental phenomena of a kind that people in operant No one has ever seen laterality or body image and the measuring them often involve extraneous factors that of the element of artistic ability in figure drawing as a follows that theoretical orientation influences what or cessful training. Fallacies in this area are numerous child's "figure-ground" perception on the Frostig test similar to test items, (Frostig and Horne, 1964). After is readministered, and the child attains a higher score as evidence of strengthened figure-ground perception. another demonstration of the fact that children can be And if a child who has taken the Frostig program instruction than previously, does the improvement have ground perception or is it, more simply, a function of increased frustration tolerance? On the other hand, if the child's willingness to remain seated, it might be w very restricted purpose, one markedly different from the for a person to do the right thing despite a weak or qu doing it. On the other hand, theory can also place one of a kind expressed in Delacato's strictures against ex with a reading disability.

In Kephart's framework, A.S. is said to promote turn, is the basis of directionality, an awareness of dronment. Therefore, laterality training is believed to directionality. Yet at this point, we lack solid scient in fact, occur. We must, therefore, accept on faith Keinternal changes are taking place as the result of traitional payoff will eventually appear. Research evidence Shotwell, 1969) is available to support the claim that But, that it occurs as a function of the developmental Kephart, remains to be demonstrated.



TIONS (Cont'd.)

As Bateman perceptively noted, "Although the remedial programs of chart contain a large motor expression or motor activity component, emblance reflects quite different theoretical formulations and unfortunately, many teachers are deceived by the "superficial that in selecting one or the other program they are choosing equivalent alternatives. This is not the case.

cal basis of A.S. is related to the notions of "laterality" and e inferred internal processes or hypothetical constructs that are directly in terms of observable, measurable events. They constia of a kind that people in operant conditioning totally reject. laterality or body image and the traditional techniques for involve extraneous factors that obscure interpretation such as tic ability in figure drawing as a test of body image. It also ical orientation influences what one accepts as evidence of sucallacies in this area are numerous, e.g., a teacher evaluates a nd" perception on the Frostig test and then trains with materials s (Frostig and Horne, 1964). After a course of training the test nd the child attains a higher score which the teacher interprets gthened figure-ground perception. Or is it anything more than just n of the fact that children can be trained to take a particular d who has taken the Frostig program responds better to reading viously, does the improvement have anything to do with figureis it, more simply, a function of a gross attention factor or n tolerance? On the other hand, if the Frostig program enhances less to remain seated, it might be worth retaining, albeit for a lose, one markedly different from that "advertised." It is possible he right thing despite a weak or questionable theoretical basis for her hand, theory can also place one in a procedural straight-jacket in Delacato's strictures against exposure to music for the child bility.

framework, A.S. is said to promote laterality. Laterality, in of directionality, an awareness of direction in the external enviloate at this training is believed to facilitate the acquisition of at this point, we lack solid scientific evidence that this does, must, therefore, accept on faith Kephart's inference that certain taking place as the result of training and that a direct behaventually appear. Research evidence (Edgar, Ball, McIntyre & available to support the claim that a practical payoff accrues as a function of the developmental processes conceptualized by believed.

A fifth question deals with the time-honored problem. Training a child in one task or at one level may facilitate on another task or another level. For example, mastery of a bicycle greatly facilitates learning to maintain equilibrate negative transfer can also occur, e.g., a skilled automobile periences a temporary loss of competence in the course of acoff driving on the right side of the road in the United State side training has a negative carry-over to driving on America

Although the adherents of operant conditioning rejected and confine themselves to an objective level of observation often show a curious lack of concern for transfer effects. has greatly facilitated Montessori training through his Presan impressive accomplishment. Yet he did this without consof Montessori instruction for later learning. However, it (Ball & Campbell, 1970) that Montessori cylinder block instrain intellectual acquisition of the concept of conservation liquid transfer problem.

esthetic preferences, ethical orientation and personality s and ability to utilize a particular technique. While behave most readily to give rise to conflicts on this level, subject any approach. With A.S. the teacher must directly exert continued the child's movements. She must be actively willing to over from rigidity or negativism. Tender Loving Care must be tended with children who are often quite physically handicapped, pour tender often it goes against the grain of many teachers to do dren with sufficient firmness to work through such initial thand, there are those so habitually authoritarian that they their approach to the child according to the changing circumsituation.

Values also enter the picture in terms of the end perforts, i.e., the kind of person one hopes to develop throulum. For example, is behavioral control established at the A recent review of Ayllon and Azrin's already classic work the issue that nowhere was provision made for reinforcing spentages on spontaneity reflects a value judgment. Is it as "adjustment?" Should we attempt to attain it in retarded person one hopes to develop through the second spentage of the end person one hopes to develop through the stablished at the second spentage of the end person one hopes to develop through the second spentage of the end person one hopes to develop through the second spentage of the end person one hopes to develop through the second spentage of the end person one hopes to develop through the end person one hopes to develop the end person of the end person one hopes to develop the end person one hopes to develop the end person of the



estion deals with the time-honored problem of Transfer of Training. n one task or at one level may facilitate the acquisition of skill another level. For example, mastery of the problem of balance on facilitates learning to maintain equilibrium on a motorcycle. But can also occur, e.g., a skilled automobile driver from England exary loss of competence in the course of adjusting to the demands right side of the road in the United States. His experience in left a negative carry-over to driving on American roads.

he adherents of operant conditioning reject hypothetical constructs lives to an objective level of observation and assessment, they us lack of concern for transfer effects. Lindsley, for example, tated Montessori training through his Precision Teaching approach—mplishment. Yet he did this without considering the implications ruction for later learning. However, it has recently been shown 1970) that Montessori cylinder block instruction may actually impede quisition of the concept of conservation as measured by Piaget's oblem.

riable relates <u>Subjective Factors</u>, i.e., the teacher's value system, es, ethical orientation and personality style, to her willingness lize a particular technique. While behavioristic approaches seem we rise to conflicts on this level, subjective factors can affect h A.S. the teacher must directly exert considerable control over nts. She must be actively willing to overcome resistance arising egativism. Tender Loving Care must be tempered with a firm approach are often quite physically handicapped, passive and "helpless." Is against the grain of many teachers to deal with handicapped chilent firmness to work through such initial rigidity. On the other lose so habitually authoritarian that they cannot temper or modify the child according to the changing circumstances of the training

o enter the picture in terms of the end product of one's training kind of person one hopes to develop through a particular curric, is behavioral control established at the expense of spontaneity?
Ayllon and Azrin's already classic work on token economy raised there was provision made for reinforcing spontaneous behavior. Yet neity reflects a value judgment. Is it an ingredient of optimal ould we attempt to attain it in retarded persons?



THEORETICAL CONSIDERATIONS (Cont'd.)

A seventh variable relates to the development diverse training approaches could be related and intrommon-denominator. It represents an attempt to idening through highly diverse and seemingly contradict book Itard, Seguin, and Kephart, drawing on the Mode very direct relationship between techniques developed and recent developments in the field of operant strated. Also, with the model of escape-avoidance of departure, direct relationships between historic (It porary (Lovaas' and Kephart's) training techniques a oncilable operant conditioning (exemplified by Lovaaby Kephart) approaches have been shown. The field of by exaggerated theoretical differences and neologist in need of parsimonious organizing principles highlinather than difference.

An awareness of the multiple implications of in more sophisticated programming. For example, instive communication (understanding speech) through a and oriented to this single objective, why not teach Colwell (1965) self-help skill program? In so doing one stone and come out ahead in regard to cost-benef

Descriptive categories such as self-help ski sensory-motor skills and communication are completed is justifiable on the grounds of convenience and util as sensory-motor, but it is also personal-social, are receptive communication is also involved. A specification fact can be found in the results of a study by young, moderately retarded children were trained with Sensory-Motor Training program. As expected, the expectantly on the Motor Skill Schedule of the Gesell. I noted on the Language and Personal-Social Schedules of training.

The eighth question deals with the possibil or activity within the framework of behavioristic (When applied to A.S., this might involve the utilization forcers than Kephart customarily employs. For example,



NSIDERATIONS (Cont'd.)

nth variable relates to the development of Models whereby extremely ng approaches could be related and interpreted in terms of some lowestator. It represents an attempt to identify threads of continuity runighly diverse and seemingly contradictory training systems. guin, and Kephart, drawing on the Model of Generalized Imitation, a lationship between techniques developed by Itard and Seguin prior to t developments in the field of operant conditioning has been demon-, with the model of escape-avoidance conditioning as a point of ect relationships between historic (Itard's and Seguin's) and contem-' and Kephart's) training techniques and between the seemingly irrecant conditioning (exemplified by Lovaas) and cognitive (exemplified proaches have been shown. The field of special education, handicapped theoretical differences and neologistic terminologies, is desperately simonious organizing principles highlighting areas of commonality fference.

reness of the multiple implications of any one technique can result ticated programming. For example, instead of directly training reception (understanding speech) through a program specifically designed this single objective, why not teach it incidental to the Bensbergself-help skill program? In so doing one might kill two birds with come out ahead in regard to cost-benefit analysis.

ptive categories such as self-help skills, personal-social behavior, skills and communication are completely arbitrary although their use on the grounds of convenience and utility. A.S. might be classified or, but it is also personal-social, and it could hardly be denied that unication is also involved. A specific experimental demonstration of be found in the results of a study by Edgar, et al (1969) in which ely retarded children were trained with an adaptation of Kephart's raining program. As expected, the experimental group gained signif-Motor Skill Schedule of the Gesell. But significant gains were also anguage and Personal-Social Schedules, areas that were not the focus

ghth question deals with the possibilities of restructuring a program thin the framework of behavioristic (operant conditioning) methodology.

A.S., this might involve the utilization of a wider range of reinephart customarily employs. For example, learning might be accelerated



in an unresponsive child by introducing food reinforcement by successive approximations. On the other hand, objection the utility and advisability of such adaptations. Kephart be taught within an operant conditioning framework but arguprobably just as efficient. Also, he feels his own approach to the development of voluntary control in the child. The settled by empirical studies. Yet they merit careful const d by introducing food reinforcement and teaching the activity tions. On the other hand, objections might be raised regarding ility of such adaptations. Kephart agrees that such tasks can rant conditioning framework but argues that his own method is ent. Also, he feels his own approach lends itself more readily oluntary control in the child. These questions can only be udies. Yet they merit careful consideration.

A Format for Reviewing Criterion Variables

"Communication" is a term commonly objective. In this conference, participant term, e.g., Communication (Word Association They then proceeded to develop relevant protional need delineated by each subcategory of time, money and effort, it is important with communication. And to the extent that communication skills, they should be carefulabel and tease out the practical implication.

In the following table, some progratapproaches to the training of receptive consists an example of a direct, behavioristic as mally labeled as such. The Bensberg-Colwedgram primarily devised for another purpose an important incidental payoff for one phase. This fact takes on great significance in pathe profound level of retardation priority of commands so that the child can be broughtions). Since the capacity for symbolizate to talk is less critical than for the mild under verbal control, he urgently needs to dressing, feeding and toileting. And since under verbal control while focusing on self simultaneously with considerable economy of the since the control while focusing on self simultaneously with considerable economy of the simultaneou

ng Criterion Variables in Curriculum Development

on" is a term commonly used by teachers to define an instructional conference, participants defined various subcategories of this ation (Word Association) and Communication (Receptive Understanding). to develop relevant programs dealing directly with the instructed by each subcategory. However, from the standpoint of economy ffort, it is important to note that many programs indirectly deal And to the extent that they can be used effectively to promote, they should be carefully evaluated. We must look beyond the the practical implications of what is actually taught to the child.

wing table, some programs that constitute both direct and indirect aining of receptive communication are classified. Lovaas' program irect, behavioristic approach to language training and it is for—
h. The Bensberg-Colwell program is an excellent example of a pro—
ed for another purpose, that is, self-help skill training, but with tal payoff for one phase of communication, i.e., receptive speech. reat significance in planning for children below IQ 20. Thus, at f retardation priority should be given to developing comprehension the child can be brought under verbal control (follow verbal instructapacity for symbolization is limited, the development of the ability ical than for the mildly retarded. Along with the need to bring him, he urgently needs to acquire basic self-help skills, especially id toileting. And since the Bensberg-Colwell program places the child while focusing on self-help skills, it achieves both objectives considerable economy of time, effort and money.

Table
Training Approaches

Direct Theoretical Orientation			Indirect (Incidental Result) Theoretical Orientation		

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